aiwa SERVICE

XR-HG7MD EZ,K

SERVICE MANUAL

MD/CD
STEREO SYSTEM

BASIC TAPE MECHANISM : AZM-1 A1
BASIC CD MECHANISM : AZG-1 SB3RNMD
BASIC MD MECHANISM : AZG-T D

SYSTEM	MD/CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
XR-HG7MD	CX-NHG7MD	SX-WNH81	RC-ZAS18

If requiring information about the CD mechanism, see Service Manual of AZG-1 (S/M Code No. 09-001-335-3NE).

aiwa

S/M Code No. 09-008-349-4T1

ACCESSORIES LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-DB6-915-010		IB,K(E)I<K>				
1	8A-DB6-916-010		IB,EZ(9L)I<EZ>				
2	8Z-NB5-703-010		RC UNIT,RC-ZAS18				
3	87-006-225-010		ANT,LOOP ANT NC2				
4	87-A90-118-010		ANT,WIRE FM(Z)				
⚠ 5	87-099-811-010		PLUG,ADPTR CONV(K)<K>				

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
⚠	87-A21-417-010		IC,STK490-310
	8A-DB6-611-010		C-IC,UPD784975-XXX
	87-A20-914-010		IC,SPS-442-1-F
⚠	87-A21-396-010		IC,STK490-040
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-021-040		C-IC,BU2099FV
	87-A21-452-030		C-IC,BD3876KS2
	87-A21-577-040		C-IC,M61506FP
	87-A21-560-010		IC,LA1844L-A
	87-A20-440-040		C-IC,BU1920FS
	87-070-127-110		IC,LC72131D
TRANSISTOR			
	87-026-245-080		TR,DTC114ES
	87-026-609-080		TR,KTA1266GR
	87-026-610-080		TR,KTC3198GR
	87-A30-198-080		TR,KTC3199GR
	87-A30-047-080		TR,CSD655E
	89-213-702-010		TR,2SB1370E
	87-A30-202-080		C-TR,RT1P441C
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-318-080		TR,CSA952K
	87-A30-107-070		C-TR,CMBT5401
	87-A30-269-040		C-FET,2SJ461-T1
	87-A30-106-070		C-TR,CMBT5551
	87-A30-087-080		C-FET,2SK2158
	87-A30-071-080		C-TR,RT1N 144C
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-329-080		TR,CD1585BC
	87-A30-240-080		TR,CSA1585BC
	89-327-143-080		C-TR,2SC2714O
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-086-040		C-TR,CSD1306E
	87-A30-484-080		C-TR,KRA102S
	89-503-602-080		C-FET,2SK360E
	87-A30-234-080		TR,CSC4115BC
DIODE			
	87-A40-548-090		DIODE,D3SBA20
	87-017-654-060		DIODE,GBU6JL6131
	87-A40-269-080		C-DIODE,MC2836
	87-A40-839-090		DIODE,G5SBA60L-6088
	87-020-465-080		DIODE,1SS133
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-781-080		ZENER,UZ36BSA
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-313-080		C-DIODE,MC2840
	87-A40-270-080		C-DIODE,MC2838
	87-A40-768-080		ZENER,UZ16BSA
	87-A40-234-080		ZENER,MTZJ5.6A
	87-A40-468-080		C-DIODE,HSM2836CTR
	87-017-978-080		DIODE,1N4003
	87-A40-745-080		ZENER,UZ4.7BSA
	87-A40-747-080		ZENER,UZ5.1BSB
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C0003	87-012-368-080		C-CAP,S 0.1-50 Z F
C0004	87-012-368-080		C-CAP,S 0.1-50 Z F
C0021	87-016-658-000		CAP,E 4700-35 M SMG
C0022	87-016-658-000		CAP,E 4700-35 M SMG
C0025	87-010-406-080		CAP,E 22-50 M 11L SME
C0026	87-010-406-080		CAP,E 22-50 M 11L SME
C0027	87-010-406-080		CAP,E 22-50 M 11L SME
C0028	87-010-406-080		CAP,E 22-50 M 11L SME
C0031	87-010-263-080		CAP,E 100-10 M 11L SME
C0032	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0034	87-010-384-080		CAP,E 100-25 M 11L SME
C0035	87-010-382-080		CAP,E 22-25 M 11L SME
C0036	87-010-381-080		CAP,E 330-16 M SME
C0038	87-010-394-080		CAP,E 220-35 M SME
C0039	87-010-394-080		CAP,E 220-35 M SME
C0040	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0060	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0080	87-010-401-080		CAP,E 1-50 M 11L SME
C0081	87-010-374-080		CAP,E 47-10 M 11L SME
C0082	87-010-260-080		CAP,E 47-25 M 11L SME
C0104	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0105	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0111	87-010-545-080		CAP,E 0.22-50 M 11L SME
C0112	87-010-545-080		CAP,E 0.22-50 M 11L SME
C0113	87-010-545-080		CAP,E 0.22-50 M 11L SME
C0114	87-010-545-080		CAP,E 0.22-50 M 11L SME
C0115	87-010-546-080		CAP,E 0.33-50 M 11L SME
C0116	87-010-546-080		CAP,E 0.33-50 M 11L SME
C0121	87-010-546-080		CAP,E 0.33-50 M 11L SME
C0122	87-010-546-080		CAP,E 0.33-50 M 11L SME
C0161	87-010-176-080		C-CAP,S 680P-50 J SL
C0162	87-010-176-080		C-CAP,S 680P-50 J SL
C0171	87-012-368-080		C-CAP,S 0.1-50 Z F
C0172	87-012-368-080		C-CAP,S 0.1-50 Z F
C0173	87-012-368-080		C-CAP,S 0.1-50 Z F
C0174	87-012-368-080		C-CAP,S 0.1-50 Z F
C0175	87-010-191-080		C-CAP,S 0.015-50 Z F GRM
C0176	87-010-191-080		C-CAP,S 0.015-50 Z F GRM
C0177	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0178	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0303	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0304	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0307	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0309	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0310	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0311	87-010-198-080		C-CAP,S 0.022-25 K B C2012
C0312	87-010-198-080		C-CAP,S 0.022-25 K B C2012
C0315	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0316	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0321	87-016-492-080		C-CAP,S 0.33-16 Z F
C0322	87-016-492-080		C-CAP,S 0.33-16 Z F
C0324	87-010-260-080		CAP,E 47-25 M 11L SME
C0325	87-010-370-080		CAP,E 330-6.3 M SME
C0327	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0328	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0332	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0335	87-010-401-080		CAP,E 1-50 M 11L SME
C0336	87-010-401-080		CAP,E 1-50 M 11L SME
C0337	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0339	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0340	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0351	87-012-140-080		C-CAP,S 470P-50 J CH
C0352	87-012-140-080		C-CAP,S 470P-50 J CH
C0354	87-010-175-080		C-CAP,S 560P-50 J SL
C0355	87-012-349-080		C-CAP,S 1000P-50 J CH GRM
C0356	87-010-260-080		CAP,E 47-25 M 11L SME
C0357	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0358	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0359	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0360	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0370	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0373	87-016-083-080		C-CAP,S 0.15-16 K R
C0374	87-016-083-080		C-CAP,S 0.15-16 K R
C0378	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0379	87-010-406-080		CAP,E 22-50 M 11L SME
C0380	87-010-406-080		CAP,E 22-50 M 11L SME

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C0386	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0388	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C0393	87-010-319-080		C-CAP,S 56P-50 J CH
C0394	87-010-319-080		C-CAP,S 56P-50 J CH
C0611	87-010-956-080		C-CAP,S 0.068-25 K B GRM
C0612	87-016-369-080		C-CAP,S 0.033-25 K B GRM
C0613	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0614	87-016-669-080		C-CAP,S 0.1-25 K B
C0616	87-010-184-080		C-CAP,S 3300P-50 K B C2012
C0617	87-012-369-080		C-CAP,S 0.047-50 Z F
C0618	87-010-401-080		CAP,E 1-50 M 11L SME
C0619	87-010-263-080		CAP,E 100-10 M 11L SME
C0620	87-016-669-080		C-CAP,S 0.1-25 K B
C0621	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0623	87-010-401-080		CAP,E 1-50 M 11L SME
C0624	87-010-401-080		CAP,E 1-50 M 11L SME
C0626	87-A11-590-080		C-CAP,S 0.047-16 K B
C0627	87-010-400-080		CAP,E 0.47-50 M 11L SME
C0628	87-010-400-080		CAP,E 0.47-50 M 11L SME
C0629	87-A11-590-080		C-CAP,S 0.047-16 K B
C0630	87-010-383-080		CAP,E 33-25 M 11L SME
C0631	87-010-185-080		C-CAP,S 3900P-50 K B
C0632	87-010-185-080		C-CAP,S 3900P-50 K B
C0633	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0634	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0635	87-A10-307-080		CAP,M 0.1-50 J
C0636	87-A10-307-080		CAP,M 0.1-50 J
C0637	87-A10-307-080		CAP,M 0.1-50 J
C0638	87-A10-307-080		CAP,M 0.1-50 J
C0639	87-010-405-080		CAP,E 10-50 M 11L SME
C0641	87-010-401-080		CAP,E 1-50 M 11L SME
C0642	87-010-401-080		CAP,E 1-50 M 11L SME
C0643	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0644	87-010-401-080		CAP,E 1-50 M 11L SME
C0645	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0671	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0672	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0673	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0679	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0680	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0682	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0771	87-010-263-080		CAP,E 100-10 M 11L SME
C0772	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0779	87-010-188-080		C-CAP,S 6800P-50 K B C2012
C0780	87-010-188-080		C-CAP,S 6800P-50 K B C2012
C0782	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0783	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0784	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0785	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0786	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0788	87-010-149-080		C-CAP,S 5P-50 C CH GRM
C0789	87-A10-592-080		C-CAP,S 0.015-50 J B
C0790	87-A10-592-080		C-CAP,S 0.015-50 J B
C0791	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0792	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0793	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0794	87-012-155-080		C-CAP,S 180P-50 J CH GRM
C0795	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0796	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0797	87-010-405-080		CAP,E 10-50 M 11L SME
C0798	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0799	87-010-407-080		CAP,E 33-50 M 11L SME
C0800	87-012-369-080		C-CAP,S 0.047-50 Z F
C0801	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0802	87-012-369-080		C-CAP,S 0.047-50 Z F
C0803	87-010-198-080		C-CAP,S 0.022-25 K B C2012
C0804	87-010-263-080		CAP,E 100-10 M 11L SME
C0807	87-010-400-080		CAP,E 0.47-50 M 11L SME
C0808	87-010-401-080		CAP,E 1-50 M 11L SME
C0809	87-010-401-080		CAP,E 1-50 M 11L SME
C0810	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0811	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0812	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0814	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0815	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0816	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0818	87-010-180-080		C-CAP,S 1500P-50 K B C2012
C0821	87-010-405-080		CAP,E 10-50 M 11L SME
C0823	87-012-349-080		C-CAP,S 1000P-50 J CH GRM
C0824	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0825	87-010-596-080		C-CAP,S 0.047-16 K R C2012
C0831	87-010-406-080		CAP,E 22-50 M 11L SME
C0842	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0843	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0844	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0845	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0846	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0847	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0848	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0849	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0850	87-010-260-080		CAP,E 47-25 M 11L SME
C0851	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0852	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0853	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0858	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0859	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0860	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0869	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0870	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0871	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C0872	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C0873	87-012-140-080		C-CAP,S 470P-50 J CH
C0874	87-010-405-080		CAP,E 10-50 M 11L SME
C0875	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0876	87-010-405-080		CAP,E 10-50 M 11L SME
C0877	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0878	87-010-316-080		C-CAP,S 33P-50 J CH GRM
C0879	87-010-314-080		C-CAP,S 22P-50 J CH GRM
C0940	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0942	87-010-149-080		C-CAP,S 5P-50 C CH GRM
C0947	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0948	87-012-140-080		C-CAP,S 470P-50 J CH
C0952	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0957	87-010-311-080		C-CAP,S 12P-50 J CH GRM
C0958	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0959	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0960	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0962	87-010-401-080		CAP,E 1-50 M 11L SME
C0963	87-015-785-080		C-CAP, 0.1-25 Z F C3216
C0971	87-010-381-080		CAP,E 330-16 M SME
C0972	87-010-404-080		CAP,E 4.7-50 M 11L SME
C0973	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0974	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0979	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0981	87-010-260-080		CAP,E 47-25 M 11L SME
C0982	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0983	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0984	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0985	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0987	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0989	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0991	87-010-312-080		C-CAP,S 15P-50 J CH GRM
C0992	87-010-312-080		C-CAP,S 15P-50 J CH GRM
C0993	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0995	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0997	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0998	87-010-260-080		CAP,E 47-25 M 11L SME
C0999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF0831	87-008-423-010		FLTR,CF SFE10.7MS3G-A
CF0832	82-785-747-010		CF,MS2 GHY,R

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN0001	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN0091	87-A60-109-010		CONN,2P V S2M-2W
CN0101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN0351	87-099-832-010		CONN,8P V S2M-8W
CN0601	87-099-719-010		CONN,30P H BLK TYK-B(X)
CN0603	87-099-016-010		CONN,14P V BLK 6216
CN0607	87-099-566-010		CONN,7P TUC-P7P-B1
CNA0001	8A-NF8-653-010		CONN ASSY,9P TID-A(480)
FB0301	87-008-372-080		FLTR,EMI BL01 RN1
FFE0831	A8-6ZA-19C-170		6ZA-1 YFEENC
J0102	87-A60-238-010		TERMINAL,SP 4P (MSC)
J0103	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J0604	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J0832	87-A60-403-010		TERMINAL,ANT PAL 2P HSP-312V05
JW0659	87-008-372-080		FLTR,EMI BL01 RN1
L0101	87-A50-610-010		COIL,1UH K(MDEC)
L0102	87-A50-610-010		COIL,1UH K(MDEC)
L0301	87-A50-049-010		COIL,TRAP 85K(COI)
L0302	87-A50-049-010		COIL,TRAP 85K(COI)
L0351	87-007-342-010		COIL,OSC 85KHZ BIAS
L0801	87-A50-608-010		COIL,FM DET-N(TOK)
L0802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L0811	87-005-847-080		COIL,2.2UH K CECS
L0832	87-005-847-080		COIL,2.2UH K CECS
L0861	87-005-847-080		COIL,2.2UH K CECS
L0941	87-A50-020-010		COIL,ANT LW (COI) 252KHZ
L0942	87-A50-019-010		COIL,OSC LW (COI) 856KHZ
L0951	8A-NF8-668-010		COIL,AM PACK 2(TOK)
R0161	87-A00-441-050		RES,270-1/2W J RP
R0162	87-A00-441-050		RES,270-1/2W J RP
R0163	87-A00-441-050		RES,270-1/2W J RP
R0164	87-A00-441-050		RES,270-1/2W J RP
R0790	87-010-197-080		C-CAP,S 0.01-25 K B C2012
R0991	87-010-322-080		C-CAP,S 100P-50 J CH GRM
R0993	87-010-322-080		C-CAP,S 100P-50 J CH GRM
R0995	87-010-322-080		C-CAP,S 100P-50 J CH GRM
SFR0351	87-024-436-080		SFR,47K H RH063MC
SFR0352	87-024-436-080		SFR,47K H RH063MC
TC0942	87-011-253-080		TRIMMER,CER 30P 4.0X4.5 ECRLA
WH0001	87-A90-510-010		HLDR,WIRE 2.5-9P
X0861	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309
X0991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

FRONT C.B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C0038	87-012-140-080		C-CAP,S 470P-50 J CH
C0039	87-012-140-080		C-CAP,S 470P-50 J CH
C0040	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0050	87-012-140-080		C-CAP,S 470P-50 J CH
C0141	87-010-182-080		C-CAP,S 2200P-50 K B C2012
C0142	87-010-213-080		C-CAP,S 0.015-25 K B GRM
C0153	87-016-669-080		C-CAP,S 0.1-25 K B
C0154	87-A10-189-040		CAP,E 220-10 M 5L
C0155	87-010-313-080		C-CAP,S 18P-50 J CH GRM
C0156	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0158	87-012-155-080		C-CAP,S 180P-50 J CH GRM
C0160	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0162	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0163	87-A10-189-040		CAP,E 220-10 M 5L
C0164	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0165	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C0166	87-010-075-040		CAP,E 10-16 M 5L SRE
C0167	87-010-178-080		C-CAP,S 1000P-50 K B C2012
C0171	87-010-194-080		C-CAP,S 0.047-25 Z F
C0172	87-010-408-040		CAP,E 47-50 M 11L SME
C0173	87-010-981-040		CAP,E 22-35 M 5L SRE
C0174	87-015-690-040		CAP,E 22-35 M 7L SRA
C0180	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0181	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0184	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0185	87-010-182-080		C-CAP,S 2200P-50 K B C2012
C0186	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0187	87-010-182-080		C-CAP,S 2200P-50 K B C2012
C0191	87-012-368-080		C-CAP,S 0.1-50 Z F
C0281	87-010-060-040		CAP,E 100-16 M 7L SRA
C0401	87-010-560-040		CAP,E 10-50 M 5L MA
C0402	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0410	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0451	87-010-412-040		CAP,E 10-25 M 5L SRE
C0501	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0702	87-010-320-080		C-CAP,S 68P-50 J CH GRM
C0703	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0704	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0705	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0706	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0707	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
CN0101	87-A60-350-010		CONN,30P DF8A-30P
CN0102	87-099-031-010		CONN,14P H BLK 6216
CN0252	87-A60-062-010		CONN,05P V 9604S-05C
CN0351	87-099-031-010		CONN,14P H BLK 6216
CN0451	87-099-211-010		CONN,4P V BLK 6216
CN0452	87-A60-083-010		CONN,04P H 9604S-04F
CN0502	87-A60-060-010		CONN,07P V 9604S-07C
CNA0251	88-803-092-290		CONN,ASSY 9P
FL0101	8A-DB6-610-010		FL,BJ775GNK
L0151	87-A50-652-010		COIL,OSC 15.6MHZ
LED0419	87-017-980-080		LED,SEL6210S RED
LED0421	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0422	87-017-980-080		LED,SEL6210S RED
LED0423	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0424	87-017-980-080		LED,SEL6210S RED
LED0425	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0426	87-017-980-080		LED,SEL6210S RED
LED0427	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0428	87-017-980-080		LED,SEL6210S RED
LED0429	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0430	87-017-980-080		LED,SEL6210S RED
LED0441	87-A91-818-080		LED,SEL6510C-TP8 GRN
LED0442	87-A91-818-080		LED,SEL6510C-TP8 GRN
LED0443	87-A91-818-080		LED,SEL6510C-TP8 GRN
⚠PR0251	87-A90-247-080		PROTECTOR,0.315A 60V 491
⚠PR0451	87-A90-247-080		PROTECTOR,0.315A 60V 491
R0402	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
S0301	87-A90-095-080		SW,TACT EVQ11G04M
S0302	87-A90-095-080		SW,TACT EVQ11G04M
S0303	87-A90-095-080		SW,TACT EVQ11G04M
S0304	87-A90-095-080		SW,TACT EVQ11G04M
S0305	87-A90-095-080		SW,TACT EVQ11G04M
S0306	87-A90-095-080		SW,TACT EVQ11G04M
S0307	87-A90-095-080		SW,TACT EVQ11G04M
S0308	87-A90-095-080		SW,TACT EVQ11G04M
S0309	87-A90-095-080		SW,TACT EVQ11G04M
S0310	87-A90-095-080		SW,TACT EVQ11G04M
S0321	87-A90-095-080		SW,TACT EVQ11G04M
S0322	87-A90-095-080		SW,TACT EVQ11G04M
S0323	87-A90-095-080		SW,TACT EVQ11G04M
S0324	87-A90-095-080		SW,TACT EVQ11G04M
S0325	87-A90-095-080		SW,TACT EVQ11G04M
S0326	87-A90-095-080		SW,TACT EVQ11G04M
S0327	87-A90-095-080		SW,TACT EVQ11G04M
S0328	87-A90-095-080		SW,TACT EVQ11G04M
S0329	87-A90-095-080		SW,TACT EVQ11G04M
S0330	87-A90-095-080		SW,TACT EVQ11G04M
S0341	87-A90-095-080		SW,TACT EVQ11G04M
S0342	87-A90-095-080		SW,TACT EVQ11G04M
S0343	87-A90-095-080		SW,TACT EVQ11G04M
S0344	87-A90-095-080		SW,TACT EVQ11G04M
S0345	87-A90-095-080		SW,TACT EVQ11G04M
S0346	87-A90-095-080		SW,TACT EVQ11G04M
S0347	87-A90-095-080		SW,TACT EVQ11G04M

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
S0451	87-036-109-010		SW,MICRO SPPB61
SW0162	87-A91-787-010		SW,RTRY EC12E24504
SW0163	87-A91-618-010		SW,RTRY EC12E12504-30MM

AMP 1F C.B

C0101	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0102	87-010-183-080		C-CAP,S 2700P-50 K B GRM
C0103	87-010-545-080		CAP,E 0.22-50 M 11L SME
C0104	87-010-545-080		CAP,E 0.22-50 M 11L SME
C0107	87-010-405-080		CAP,E 10-50 M 11L SME
C0108	87-010-405-080		CAP,E 10-50 M 11L SME
C0111	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0112	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0113	87-010-866-080		CAP,E 10-63 M VX
C0114	87-010-866-080		CAP,E 10-63 M VX
C0115	87-010-866-080		CAP,E 10-63 M VX
C0116	87-010-866-080		CAP,E 10-63 M VX
C0117	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0119	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0120	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0133	87-010-186-080		C-CAP,S 4700P-50 K B C2012
C0153	87-010-188-080		C-CAP,S 6800P-50 K B C2012
C0201	87-A10-300-080		CAP,M 0.027-50 J
C0202	87-A10-300-080		CAP,M 0.027-50 J
C0203	87-A10-300-080		CAP,M 0.027-50 J
C0204	87-A10-300-080		CAP,M 0.027-50 J
C0205	87-010-182-080		C-CAP,S 2200P-50 K B C2012
C0206	87-010-182-080		C-CAP,S 2200P-50 K B C2012
C0207	87-010-402-080		CAP,E 2.2-50 M 11L SME
C0208	87-010-402-080		CAP,E 2.2-50 M 11L SME
C0209	87-010-184-080		C-CAP,S 3300P-50 K B C2012
C0210	87-010-184-080		C-CAP,S 3300P-50 K B C2012
C0211	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0212	87-010-403-080		CAP,E 3.3-50 M 11L SME
C0215	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0216	87-010-179-080		C-CAP,S 1200P-50 K B GRM
C0217	87-010-405-080		CAP,E 10-50 M 11L SME
C0218	87-010-405-080		CAP,E 10-50 M 11L SME
C0221	87-010-405-080		CAP,E 10-50 M 11L SME
C0222	87-010-405-080		CAP,E 10-50 M 11L SME
C0223	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0224	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0251	87-010-993-080		C-CAP,S 0.056-25 K B MK212
C0252	87-010-993-080		C-CAP,S 0.056-25 K B MK212
C0253	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0254	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C0255	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0256	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0257	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0258	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C0259	87-012-368-080		C-CAP,S 0.1-50 Z F
C0260	87-012-368-080		C-CAP,S 0.1-50 Z F
C0401	87-010-260-080		CAP,E 47-25 M 11L SME
CN0101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CN0102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CNA0101	8A-NF8-656-010		CONN ASSY,5P TID-A 400
J0201	87-A61-148-010		JACK,PIN 4P R/W BLUE
L0251	87-A50-610-010		COIL,1UH K(MDEC)
L0252	87-A50-610-010		COIL,1UH K(MDEC)
R0129	87-A00-257-080		RES,M/F 0.15-1W J
R0130	87-A00-257-080		RES,M/F 0.15-1W J
R0231	87-A00-258-080		RES,M/F 0.22-1W J
R0232	87-A00-258-080		RES,M/F 0.22-1W J
WH0101	87-A90-459-010		HLDR,WIRE 2.5-5P

Q SURROUND C.B

C0701	87-010-402-080		CAP,E 2.2-50 M 11L SME
C0702	87-010-402-080		CAP,E 2.2-50 M 11L SME
C0703	87-010-112-080		CAP,E 100-16 M 11L SME
C0704	87-010-405-080		CAP,E 10-50 M 11L SME
C0705	87-010-260-080		CAP,E 47-25 M 11L SME
C0706	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C0707	87-010-197-080		C-CAP,S 0.01-25 K B C2012
C0709	87-010-197-080		C-CAP,S 0.01-25 K B C2012
⚠CN0701	87-A60-689-010		CONN,7P H GRY TUC-P07X-C1
IC0701	87-A21-103-040		C-IC,MM1454XFBE

SWITCH C.B

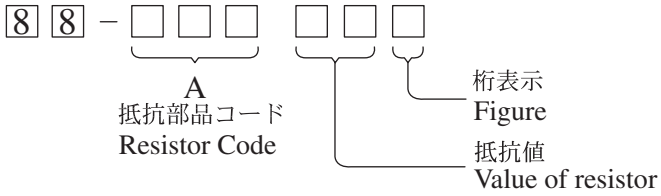
CN0352	87-099-016-010		CONN,14P V BLK 6216
LED0401	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0402	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0403	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0404	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0405	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0406	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0444	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0445	87-A40-380-180		LED,SEL6510C-TP5 GRN
LED0446	87-A40-380-180		LED,SEL6510C-TP5 GRN
S0348	87-A90-095-080		SW,TACT EVQ11G04M
S0349	87-A90-095-080		SW,TACT EVQ11G04M
S0350	87-A90-095-080		SW,TACT EVQ11G04M
S0351	87-A90-095-080		SW,TACT EVQ11G04M
S0352	87-A90-095-080		SW,TACT EVQ11G04M
S0371	87-A90-095-080		SW,TACT EVQ11G04M
S0372	87-A90-095-080		SW,TACT EVQ11G04M
S0373	87-A90-095-080		SW,TACT EVQ11G04M
S0374	87-A90-095-080		SW,TACT EVQ11G04M
S0375	87-A90-095-080		SW,TACT EVQ11G04M
S0376	87-A90-095-080		SW,TACT EVQ11G04M
S0377	87-A90-095-080		SW,TACT EVQ11G04M
S0378	87-A90-095-080		SW,TACT EVQ11G04M
S0379	87-A90-095-080		SW,TACT EVQ11G04M
S0380	87-A90-095-080		SW,TACT EVQ11G04M
S0381	87-A90-095-080		SW,TACT EVQ11G04M
S0382	87-A90-095-080		SW,TACT EVQ11G04M
S0383	87-A90-095-080		SW,TACT EVQ11G04M

PT C.B

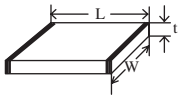
C0001	87-010-387-080		CAP,E 470-25 M SME
C0004	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0005	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0006	87-A10-627-000		CAP,E 2200-50 M SMG
C0007	87-A10-627-000		CAP,E 2200-50 M SMG
C0008	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0009	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0010	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0011	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0012	87-016-520-000		CAP,E 3300-65 M SMG
C0013	87-016-520-000		CAP,E 3300-65 M SMG
C0014	87-A11-148-080		CAP,TC U 0.1-50 Z F
C0016	87-010-403-080		CAP,E 3.3-50 M 11L SME
CN0001	87-A61-110-010		CONN,9P V TID-A
CN0002	87-A61-108-010		CONN,5P V TID-A
⚠PT0101	8A-NF8-608-010		PT,ANF-8 EZ
⚠PT0002	8A-NF8-662-010		PT,SUB ANF-8 (E)
⚠RY0002	87-A90-976-010		RELAY,AC12V SDT-S-112LMR
⚠T0001	87-A60-317-010		TERMINAL, 1P MSC
⚠T0002	87-A60-317-010		TERMINAL, 1P MSC

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード　：A Resistor Code：A
				外形／Form	L	W	t	
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

MECHANICAL MAIN PARTS LIST 1/1

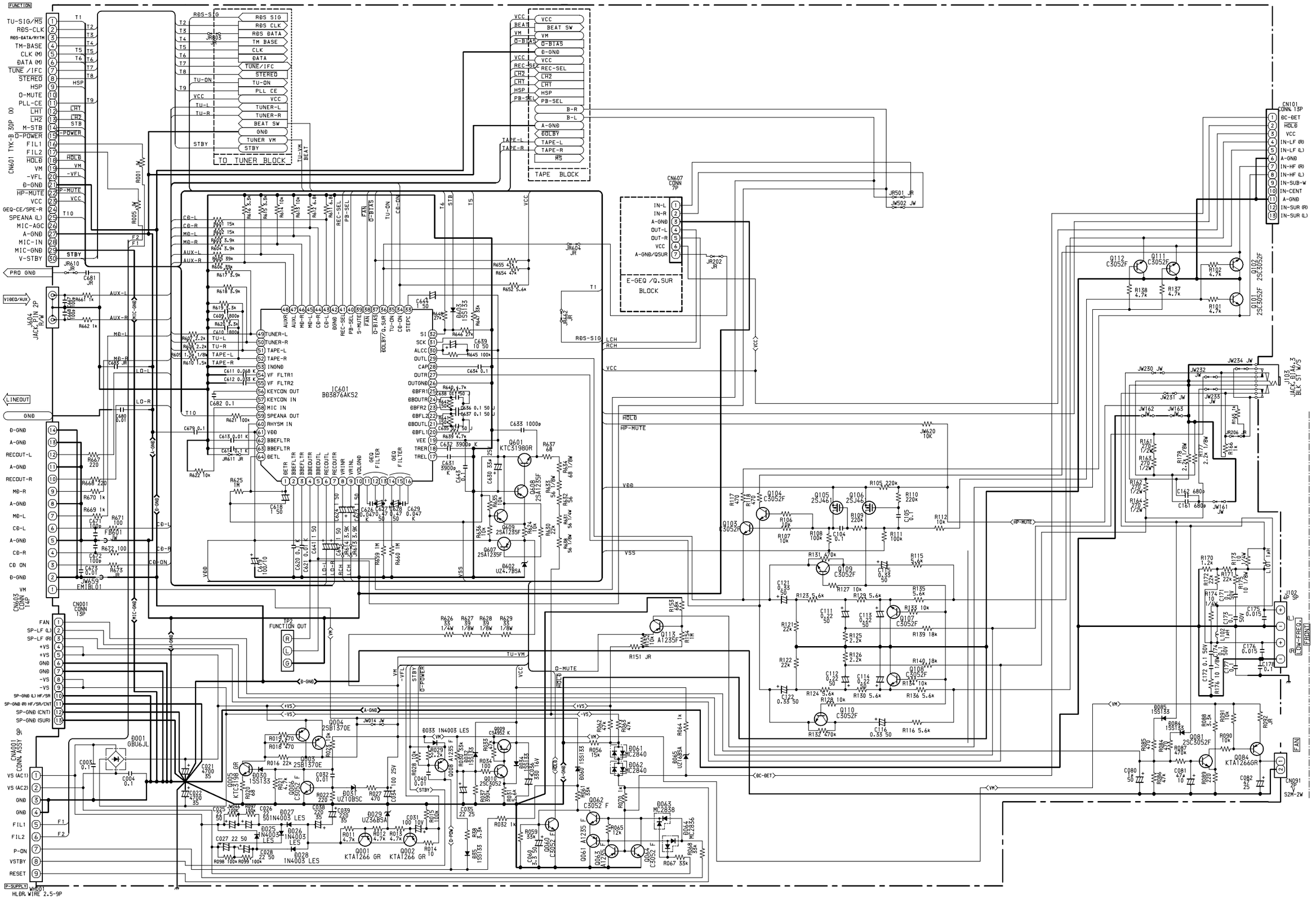
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
⚠	87-A80-157-010		AC CORD ASSY,E BLK CC
	8Z-NB6-216-010		BELT,SQ1.4-99.2
⚠	87-085-185-010		BUSHING,AC CORD(E) CM-22B
	87-067-703-010		BVT2+3-10 W/O SLOT
	87-067-581-010		BVT2+3-15 W/O SLOT
	87-067-689-010		BVTT+3-8
	8A-NF6-003-010		CABI,BOTTOM<EZ>
	8A-NF6-049-010		CABI,BOTTOM K<K>
	8A-DB6-041-010		CABI,FR EZ
	8Z-NB6-040-010		CABI,STEEL K
	8Z-NB5-205-010		CAP,CHAS
	84-ZG1-245-210		CAP,OPTICAL
	87-A11-132-080		CAP,TC U 0.01-50 K B
	8Z-NB6-616-010		CONN ASSY,2P SHILED
	8A-DB6-058-010		COVER, REAR EZS<EZ>
	8A-DB6-059-010		COVER, REAR KS<K>
	87-A91-751-010		FAN,DSB0812M-S382 -400MM
	87-A91-882-010		F-BEAD, FSOC250RT01
	87-A90-457-010		F-BEAD,15-25-15 E2515JRT
	88-914-101-110		FF-CABLE, 14P 1.25 100MM
	88-914-201-110		FF-CABLE, 14P 1.25 200MM
	88-905-251-110		FF-CABLE, 5P 1.25
	88-906-501-110		FF-CABLE, 6P 1.25
	88-914-451-110		FF-CABLE,14P 1.25 450MM
	88-904-121-110		FF-CABLE,4P 1.25 120MM
	88-907-371-110		FF-CABLE,7P 1.25 370MM
	8Z-NB6-213-010		GEAR,RELAY
	8Z-NB6-212-010		GEAR,WINDOW
	87-NF5-203-110		GUIDE,FL
	8A-DB6-222-010		GUIDE,FUNCTION
	8A-DB6-223-010		GUIDE,MD
	8A-DB6-221-010		GUIDE,POWER
	8A-DB6-224-010		GUIDE,PLAY
	8A-DB6-225-010		GUIDE,CD
	87-NF4-221-010		HLDR,CABLE
	8A-DB6-203-010		HLDR,DECK
	8A-DB6-219-010		HLDR,FAN
	8A-DB6-213-010		HLDR,HT-SINK L
	8A-DB6-204-010		HLDR,HT-SINK R
	8A-DB6-215-010		HLDR,MECHA MD
	8A-DB6-226-010		HLDR,PLAY
	8A-DB6-212-010		HLDR,PWB BTM
	8A-NF8-206-010		HLDR,PWB M
	8A-DB6-214-010		HLDR,PWB PT 76
	8A-DB6-218-010		HLDR,PWB PT SUB
	8A-DB6-033-010		KEY,ASSY CD
	8A-DB6-018-010		KEY,ASSY FUNCTION
	8A-DB6-021-010		KEY,ASSY MD
	8A-DB6-028-010		KEY,ASSY PLAY
	8A-DB6-015-010		KEY,ASSY POWER
	8A-DB6-034-010		KEY,CD
	8A-DB6-025-010		KEY,DECK
	8A-DB6-024-010		KEY,DEMO
	8A-DB6-027-010		KEY,ENTER
	8A-DB6-019-010		KEY,FUNCTION
	8A-DB6-032-010		KEY,GEQ
	8A-DB6-022-010		KEY,MD
	8A-DB6-029-010		KEY,PLAY
	8A-DB6-016-010		KEY,POWER
	8A-DB6-036-010		KEY,RDS
	8A-DB6-031-010		KEY,REC
	8A-DB6-026-010		KEY,TIMER
	8A-DB6-012-010		KNOB,RTRY VOL
	8Z-NB6-215-110		LEVER,SW
	87-A90-036-010		MOT ASSY,RF-300CA-11440
	8A-DB6-010-010		PANEL,DECK
	8A-DB6-007-010		PANEL,MD L
	8A-DB6-006-010		PANEL,MD R
	8A-DB6-051-010		PANEL,REAR EZ
	8A-DB6-011-010		PANEL,TRAY
	84-ZG1-267-010		PULLEY,LOAD MO 8
	8Z-NB6-214-010		PULLEY,RELAY
	87-721-096-410		QT2+3-10 W/O SLOT
	87-723-096-410		QT2+3-10 W/O SLOT BLK
	87-721-097-410		QT2+3-12 W/O SLOT
	8A-DB6-035-010		REFLECTOR,CD
	8A-DB6-020-010		REFLECTOR,FUNCTION
	8A-DB6-023-010		REFLECTOR,MD
	8A-DB6-030-010		REFLECTOR,PLAY
	8A-DB6-017-010		REFLECTOR,POWER
	8A-DB6-013-010		RING,VOL
	87-067-001-010		S-SCREW,BVWWST2+3-12 W/O SLOT
	87-067-975-010		S-SCREW,IT+4-8 SWCH12A
	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
	87-B10-091-010		UTT2+3-10 W/O SLOT BLK
	8A-DB6-046-010		WINDOW,DISPLAY EZ
	8A-DB6-004-010		WINDOW,FR
	8A-DB6-005-010		WINDOW,MD
	8A-DB6-009-010		WINDOW,PLAY

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink

SCHEMATIC DIAGRAM-1 (MAIN SECTION)



SCHEMATIC DIAGRAM-2 (TUNER SECTION)

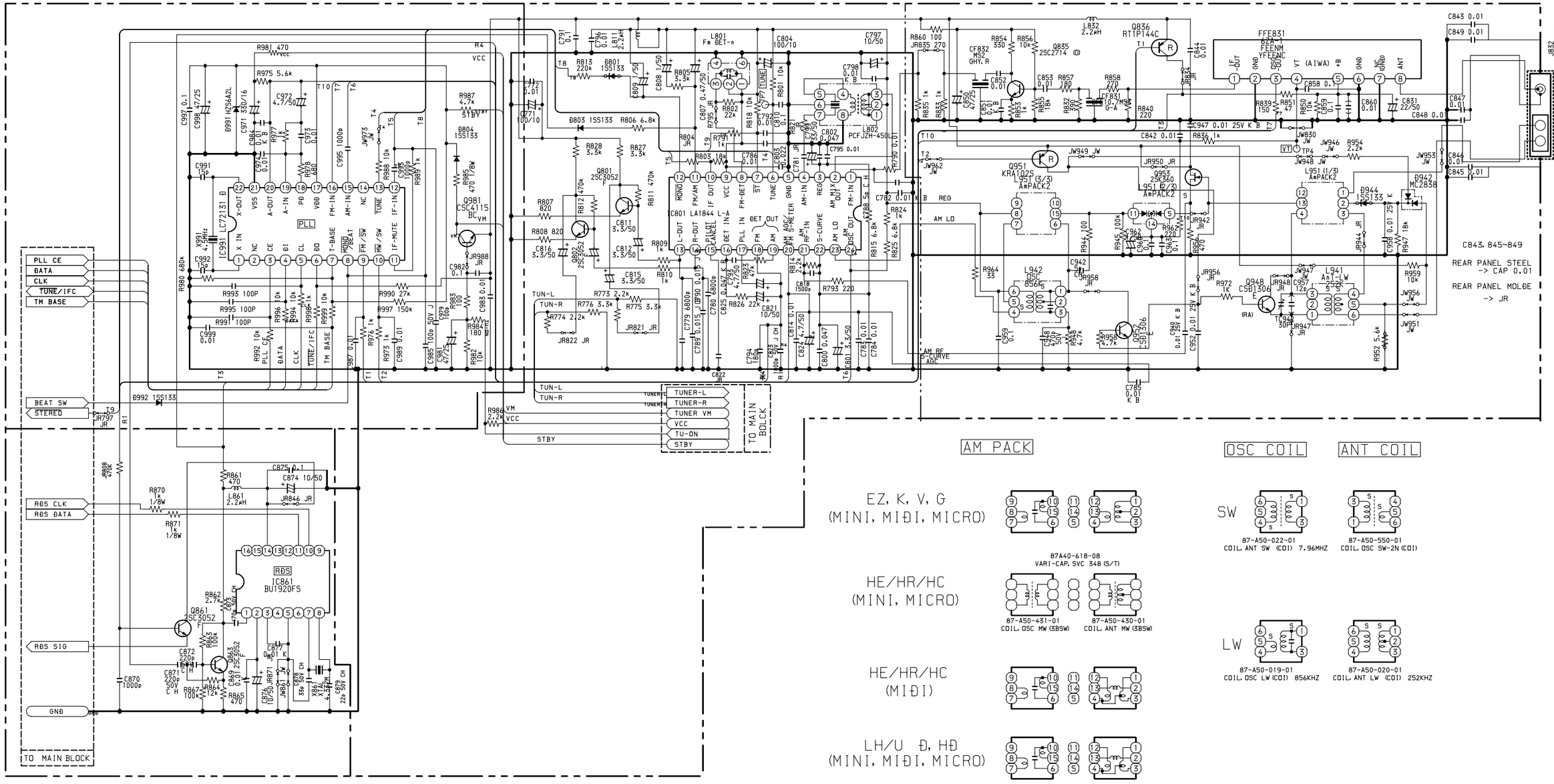
IFT COIL

	PARTS NO./ PARTS CODE		
	U/LH, EZ, K, G, V	HE/HR/HC	Ð/HÐ
1ST	87-A91-551-01 FLTR, PCFJZH-450 L (TOK)	87-A91-552-01 FLTR, CFMT-450AL (TOK)	87-A91-553-01 FLTR, PCFMT-060L (TOK)
2NÐ			
3RÐ			

AM PACK

	PARTS NO./ PARTS CODE	
	U/LH, Ð/HÐ, V	EZ, K, G
1ST	8A-NF8-667-01 COIL, AM PACK4 (TOK)	8A-NF8-668-01 COIL, AM PACK (TOK)
2NÐ		
3RÐ		

*EXCEPT SW BANÐ MODEL (HE/HR/HC)



AM PACK

EZ, K, V, G
(MINI, MIÐI, MICRO)

HE/HR/HC
(MINI, MICRO)

87A40-618-08
VARI-CAP, SVC 348 (S/T)

87-A50-431-01
COIL, OSC MW (3BSW)

87-A50-430-01
COIL, ANT MW (3BSW)

HE/HR/HC
(MIÐI)

LH/U Ð, HÐ
(MINI, MIÐI, MICRO)

OSC COIL

ANT COIL

SW

87-A50-022-01
COIL, ANT SW (COI) 7.96MHZ

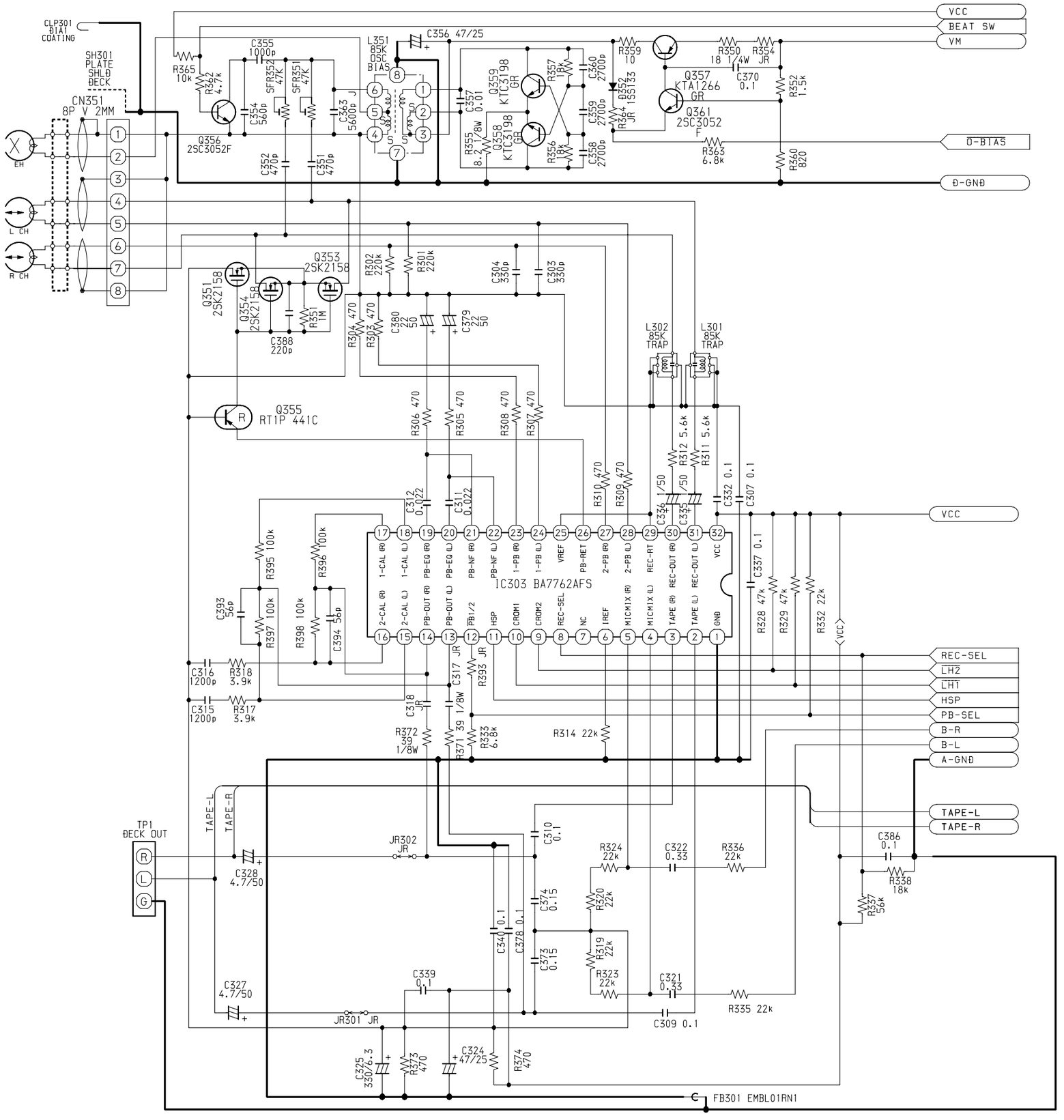
87-A50-550-01
COIL, OSC SW-2N (COI)

LW

87-A50-019-01
COIL, OSC LW (COI) 856KHZ

87-A50-020-01
COIL, ANT LW (COI) 252KHZ

SCHEMATIC DIAGRAM-3 (DECK SECTION)



	WITH ĐOLBY	W/O_ĐOLBY (R+R)	W/O_ĐOLBY (R+1_1+1)
JR303	C-JR	X	X
JR304	C-JR	X	X
C379	X	22/25	22/50
C380	X	22/50	22/50
C313	1200P	1000P	1500P
C314	1200P	1000P	1500P
R315	4.7K	5.6K	5.6K
R316	4.7K	5.6K	5.6K
C315	1000P	1000P	2200P
C316	1000P	1000P	2200P
R317	5.6K	5.6K	5.6K
R318	5.6K	5.6K	5.6K
C391	270P	56P	56P
C392	270P	56P	56P
C393	270P	56P	56P
C394	270P	56P	56P
R395	X	100K	100K
R396	X	100K	100K
R397	X	100K	100K
R398	X	100K	100K
SFR301	33K	X	X
SFR302	33K	X	X
SFR303	33K	X	X
SFR304	33K	X	X
C317	0.33 BK	C-JR	C-JR
C318	0.33 BK	C-JR	C-JR
R371	4.7K	39	39
R372	4.7K	39	39
C375	0.22/50	X	X
C376	0.22/50	X	X
R375	18K	X	X
JR301	X	C-JR	C-JR
JR302	X	C-JR	C-JR

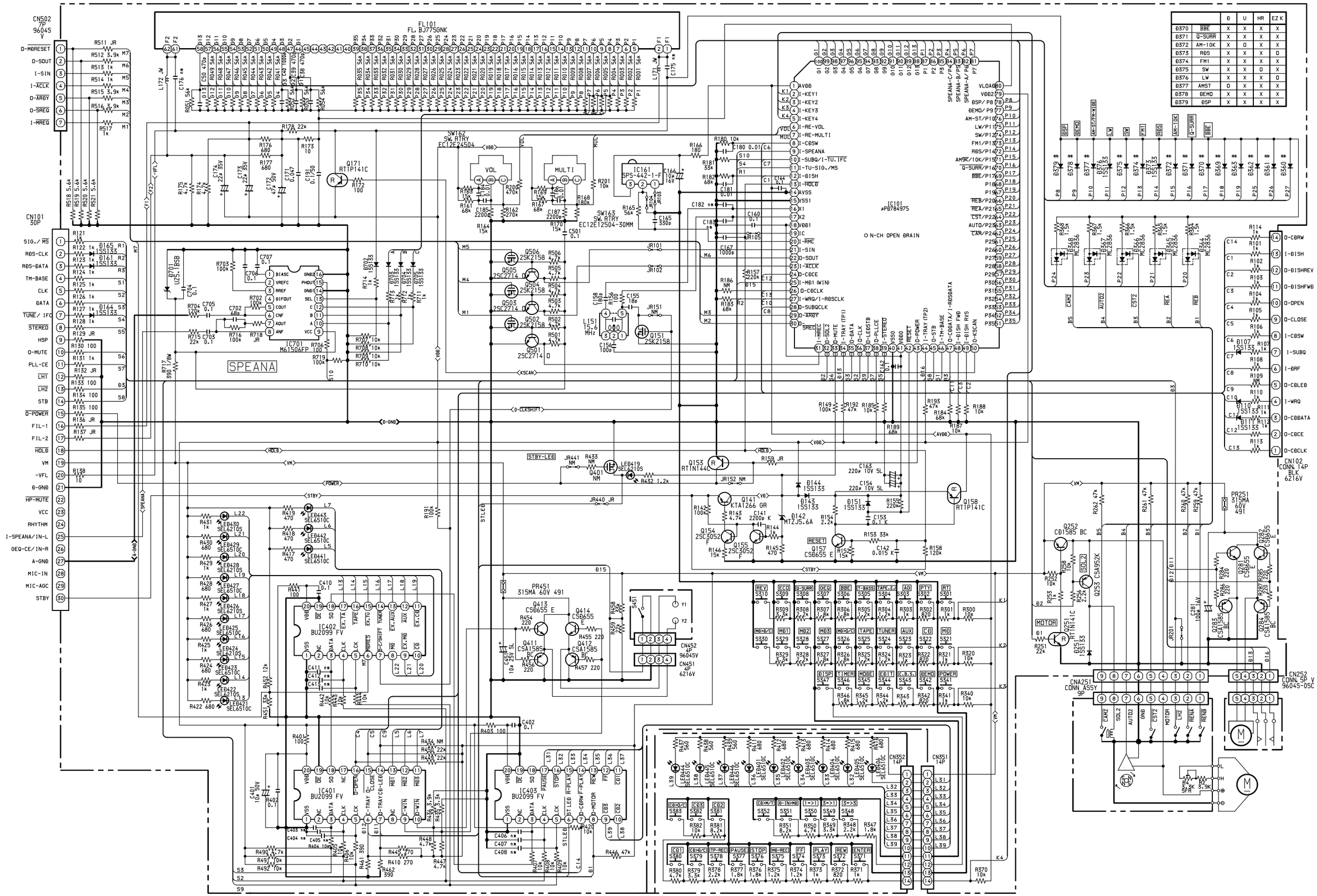
	WITH ĐOLBY	W/O_ĐOLBY (R+R_R+1_1+1)
IC302	CXA1553P	X
C309	X	0.1
C310	X	0.1
C319	0.22	X
C320	0.22	X
R321	4.7K	X
R322	4.7K	X
SFR305	50K	X
SFR306	50K	X
C371	820P	X
C372	820P	X
C373	1200P	0.15
C374	1200P	0.15
R319	4.7K	22K
R320	4.7K	22K
R323	22K	C-JR
R324	22K	C-JR
C321	0.22	0.33
C322	0.22	0.33
R335	27K	22K
R336	27K	22K
R391	X	15K
R392	X	15K
R385	15K	X
R386	15K	X
R383	470K	820K
C387	X	270P
C382	47P	15P
R389	C-JR	6.8K
Q383	X	2SA1235
C385	3300P	X

	USE BA7762AFS	USE HA12211
Q360	X	2SK2158
R330	X	C-JR
R331	X	33K
JR336	X	C-JR

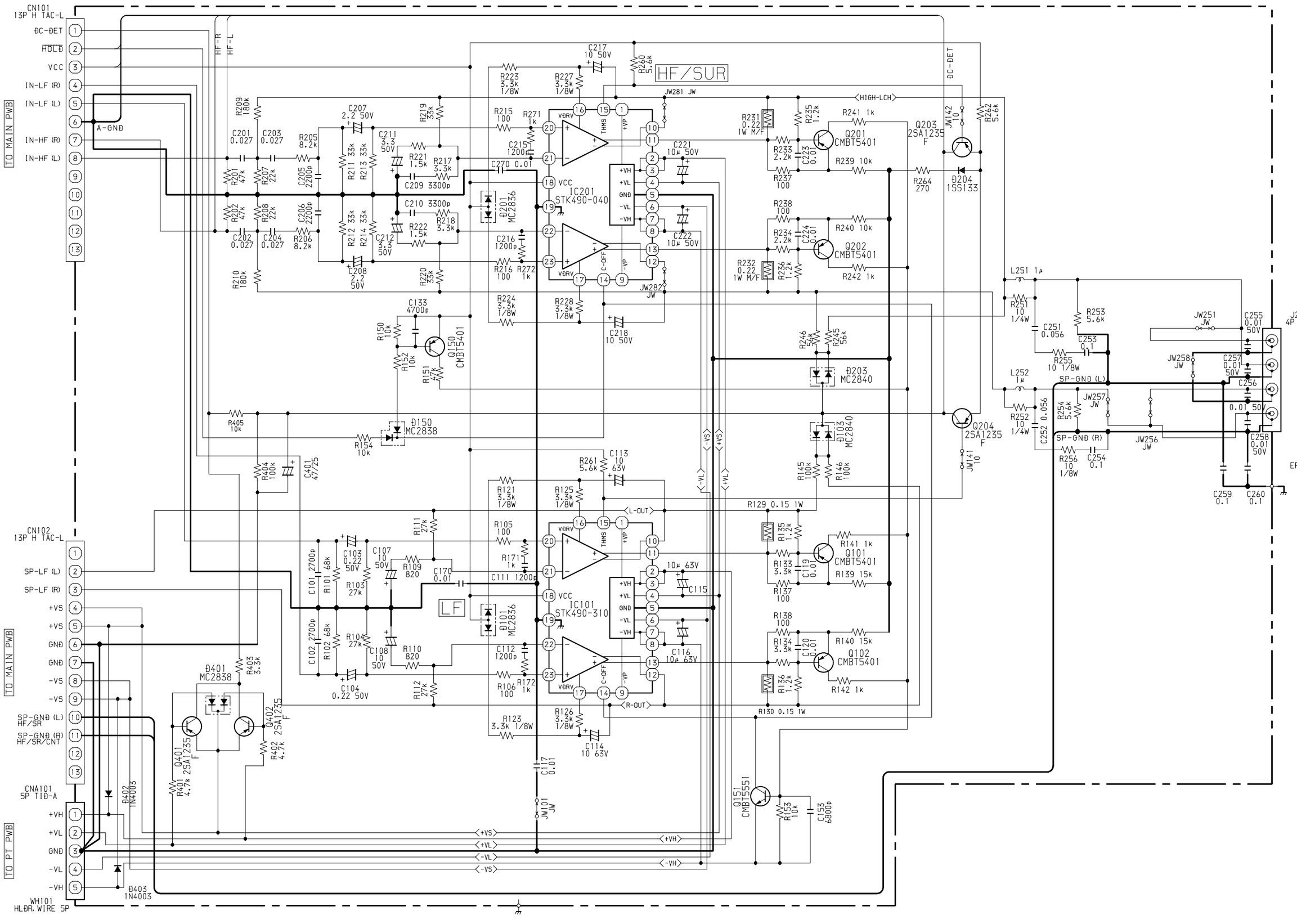
	EZ K MOĐEL	EXCEPT EZ K
Q356	2SC3052F	X
R362	4.7K	X
R365	10K	X

	EZ K MOĐEL	EXCEPT EZ
FB301	EMIBL01RN1	JW

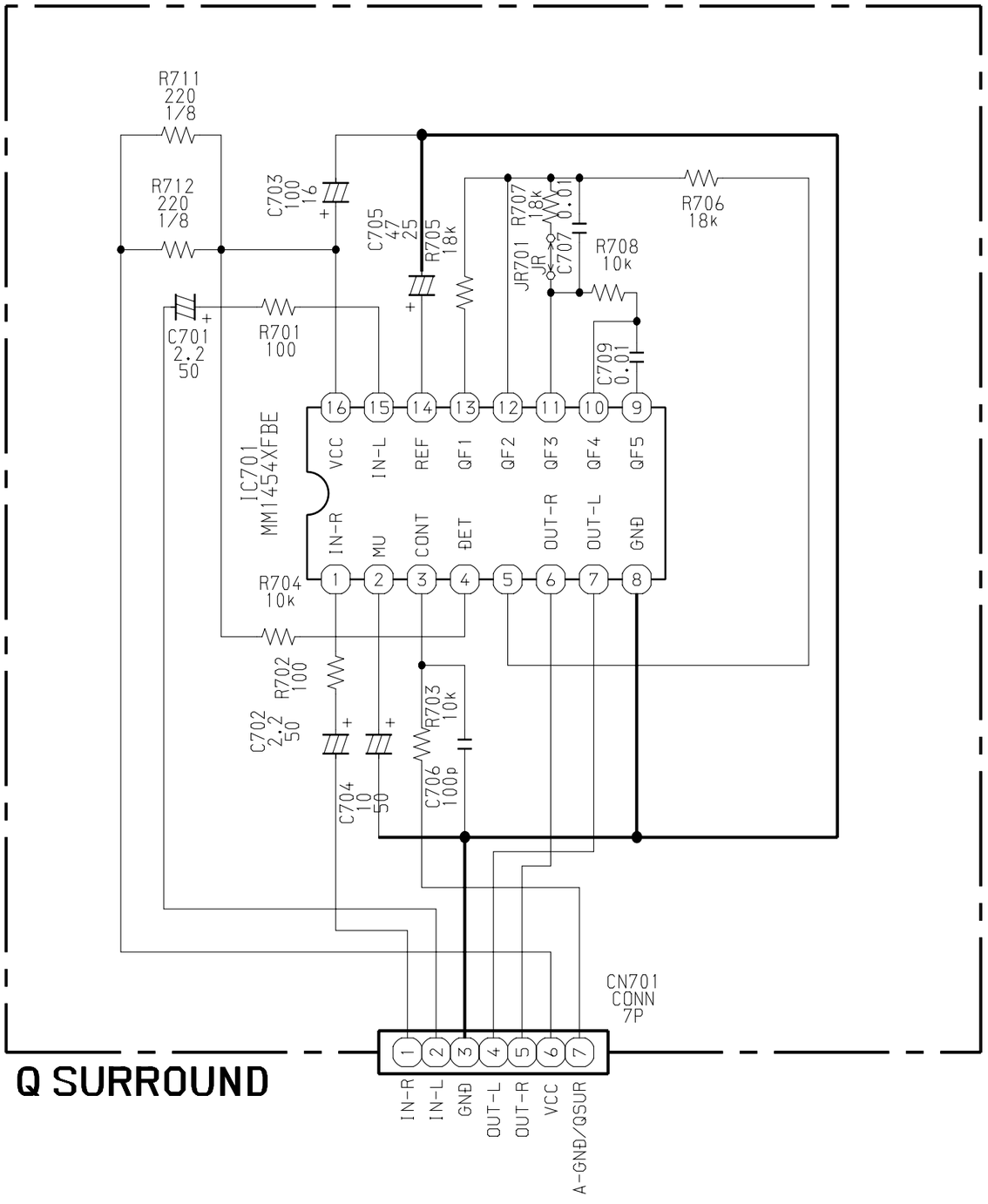
SCHEMATIC DIAGRAM-4 (FRONT SECTION)



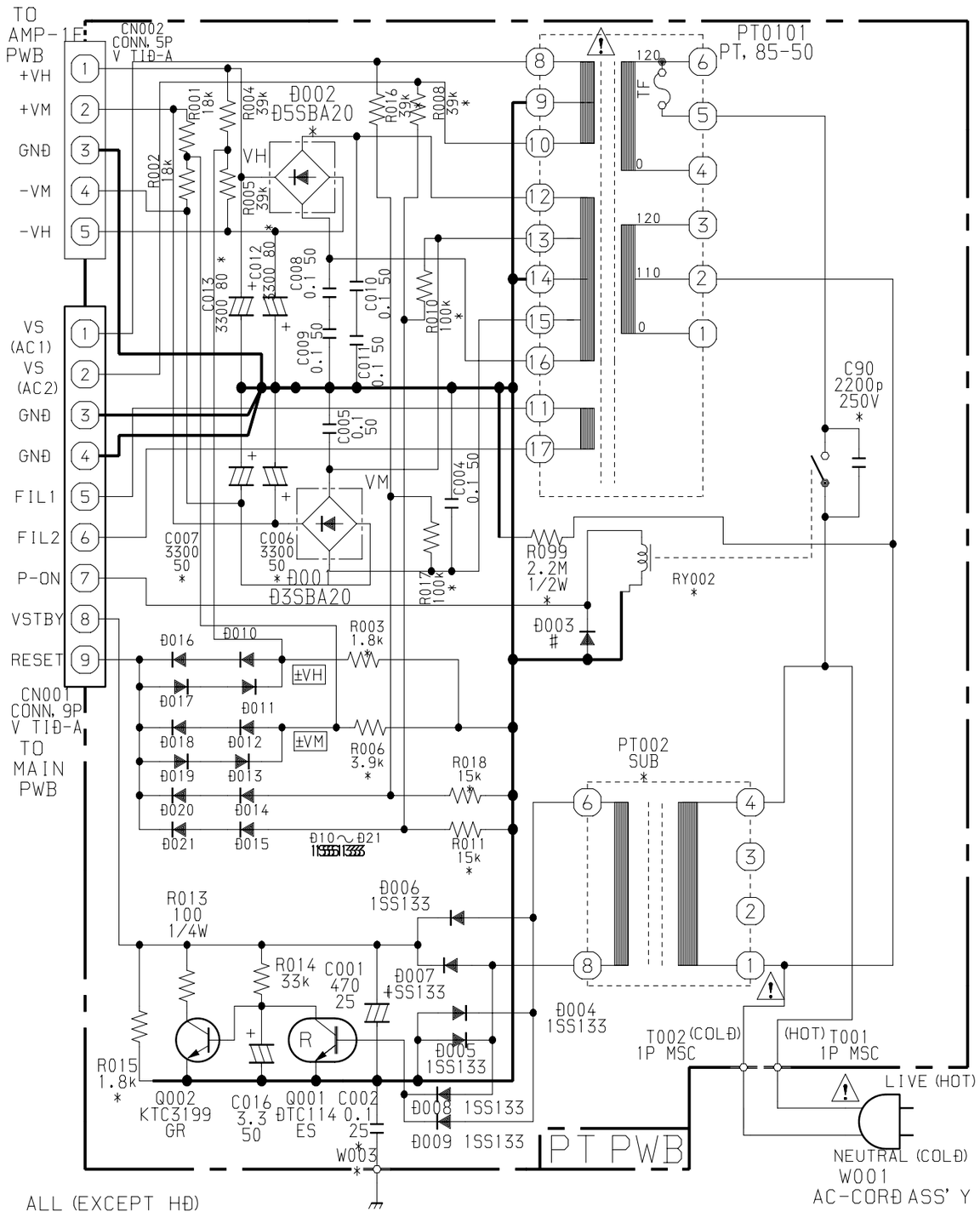
SCHEMATIC DIAGRAM-5 (AMP IF SECTION)



SCHEMATIC DIAGRAM-6 (Q SURROUND SECTION)



SCHEMATIC DIAGRAM-7 (PT SECTION)



アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
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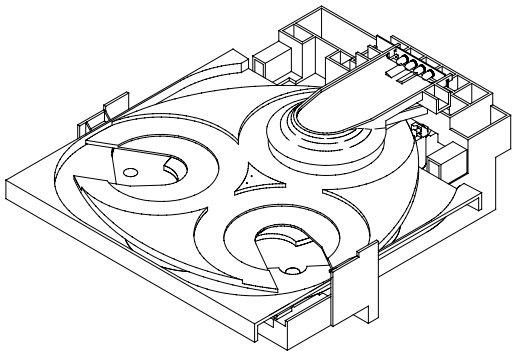
920074 Printed in Singapore

aiwa SERVICE

AZG-1

English



SERVICE MANUAL

CD-R/RW MECHANISM

BASIC CD MECHANISM:KSM-880CAB

TYPE
ZD8RD
YZD8RMDJM
ZD8RMDJM
ZD8RDNDM
YKZD8RDF
ZD8RDM
YZD8RDM
ZD8RN1DM
YZD8RDJM

aiwa

S/M Code No. 09-001-335-3N6

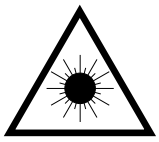
DATA

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

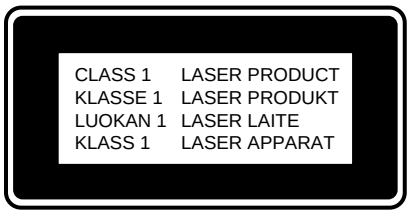
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

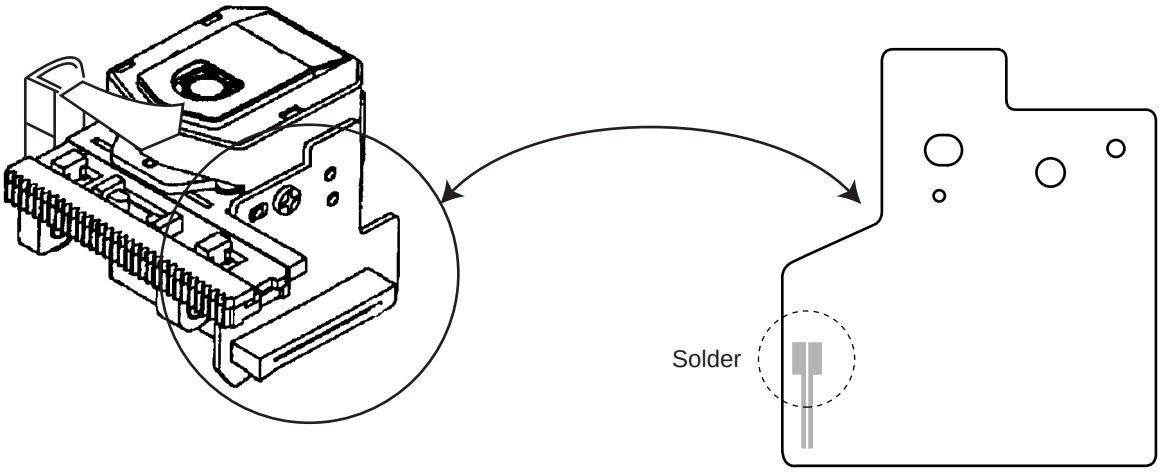
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

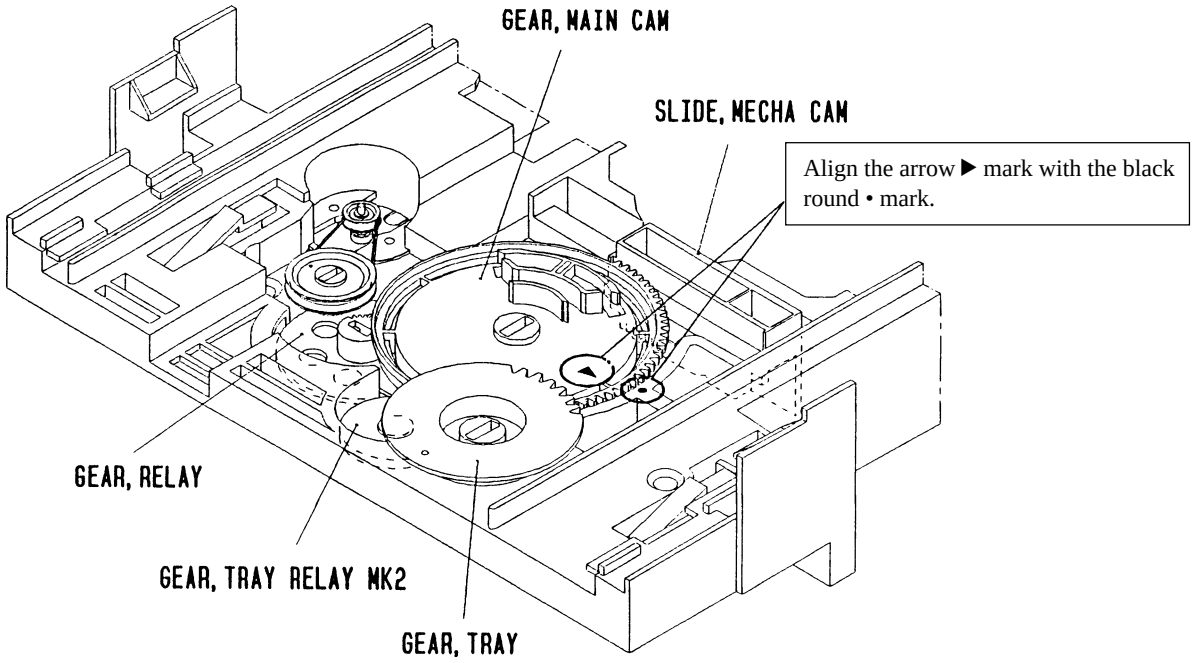
1) After the connection, remove solder shown in the figure below.



How to Adjust the Rotating Phase of the Gear, Main Cam

1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

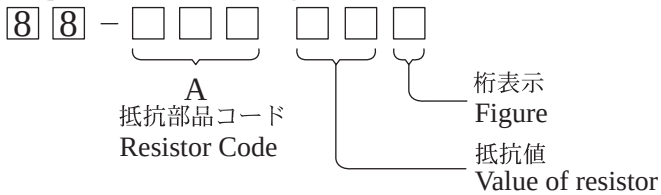
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-381-040		C-IC,LA9235M
	87-A21-556-010		C-IC,LC78641E
	87-A21-414-010		IC,BA5927S
TRANSISTOR			
	87-026-609-080		TR,KTA1266GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-497-080		TR,2SA1980Y/G
	87-A30-087-080		C-FET,2SK2158
	87-026-237-080		CHIP-TR,DTC124XK <EXCEPT ZD8RN1DM,YZD8RDM>
	87-A30-075-080		C-TR,2SA1235F
DIODE			
	87-A40-270-080		C-DIODE,MC2838
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-003-080		ZENER,MTZJ4.3A
	87-A40-337-080		ZENER,MTZJ6.8B
	87-A40-313-080		C-DIODE,MC2840
3CD C.B			
C1	87-010-374-080		CAP,E 47-10
C2	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C2	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C3	87-010-260-080		CAP, ELECT 47-25V
C4	87-010-260-080		CAP, ELECT 47-25V
C5	87-010-197-020		CHIP CAPACITOR,0.01-25 <EXCEPT YKZD88RDF,ZD8RD>
C5	87-010-197-080		CHIP CAPACITOR,0.01-25 <YKZD88RDF,ZD8RD>
C6	87-010-405-080		CAP, ELECT 10-50V
C7	87-010-263-080		CAP, ELECT 100-10V
C8	87-012-349-080		C-CAP,S 1000P-50 CH
C10	87-010-546-080		CAP,E 0.33-50
C11	87-010-401-080		CAP, ELECT 1-50V
C13	87-010-321-020		C-CAP,S 82P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C13	87-010-321-080		C-CAP,S 82P-50 J CH <YKZD88RDF,ZD8RD>
C15	87-010-197-020		CHIP CAPACITOR,0.01-25 <EXCEPT YKZD88RDF,ZD8RD>
C15	87-010-197-080		CHIP CAPACITOR,0.01-25 <YKZD88RDF,ZD8RD>
C16	87-010-260-080		CAP, ELECT 47-25V
C101	87-010-992-080		C-CAP,S 0.047-25 B
C102	87-010-401-080		CAP, ELECT 1-50V
C103	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C103	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C104	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C104	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C105	87-010-260-080		CAP, ELECT 47-25V
C106	87-010-322-020		C-CAP,S 100P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C106	87-010-322-080		C-CAP,S 100P-50 CH <YKZD88RDF,ZD8RD>
C107	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C107	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C108	87-010-186-080		CAP,CHIP 4700P<YKZD88RDF,ZD8RD>
C108	87-010-186-020		CAP,CHIP 4700P <EXCEPT YKZD88RDF,ZD8RD>
C109	87-010-992-080		C-CAP,S 0.047-25 B
C110	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C110	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C111	87-010-260-080		CAP, ELECT 47-25V
C112	87-010-197-020		CHIP CAPACITOR,0.01-25 <EXCEPT YKZD88RDF,ZD8RD>
C112	87-010-197-080		CHIP CAPACITOR,0.01-25 <YKZD88RDF,ZD8RD>
C114	87-010-260-080		CAP, ELECT 47-25V
C115	87-010-197-080		CHIP CAPACITOR,0.01-25 <YKZD88RDF,ZD8RD>
C115	87-010-197-020		CHIP CAPACITOR,0.01-25 <EXCEPT YKZD88RDF,ZD8RD>
C116	87-010-260-080		CAP, ELECT 47-25V
C117	87-010-197-080		CHIP CAPACITOR,0.01-25 <YKZD88RDF,ZD8RD>
C117	87-010-197-020		CHIP CAPACITOR,0.01-25 <EXCEPT YKZD88RDF,ZD8RD>
C118	87-010-260-080		CAP, ELECT 47-25V
C119	87-015-819-080		
C120	87-010-312-080		C-CAP,S 15P-50 CH <YKZD88RDF,ZD8RD>
C120	87-010-312-020		C-CAP,S 15P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C121	87-010-312-020		C-CAP,S 15P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C121	87-010-312-080		C-CAP,S 15P-50 CH <YKZD88RDF,ZD8RD>
C122	87-010-404-080		CAP, ELECT 4.7-50V
C123	87-010-197-020		CHIP CAPACITOR,0.01-25 <EXCEPT YKZD88RDF,ZD8RD>
C123	87-010-197-080		CHIP CAPACITOR,0.01-25 <YKZD88RDF,ZD8RD>
C124	87-010-401-080		CAP, ELECT 1-50V
C126	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C126	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C128	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C128	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C130	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C130	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C132	87-010-405-080		CAP, ELECT 10-50V
C133	87-010-314-020		C-CAP,S 22P-50V <EXCEPT YKZD88RDF,ZD8RD>
C133	87-010-314-080		C-CAP,S 22P-50V<YKZD88RDF,ZD8RD>
C135	87-A11-088-080		CAP,TC U 100P-50 J CH
C151	87-010-405-080		CAP, ELECT 10-50V
C152	87-010-405-080		CAP, ELECT 10-50V
C192	87-012-349-080		C-CAP,S 1000P-50 CH
C193	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C193	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C201	87-A10-730-080		CAP,E 1000-16 SMG
C202	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C202	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C204	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C204	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C205	87-010-405-080		CAP, ELECT 10-50V
C206	87-010-405-080		CAP, ELECT 10-50V
C207	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C207	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C301	87-010-382-080		CAP, ELECT 22-25V
C302	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C302	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C303	87-010-260-080		CAP, ELECT 47-25V
C401	87-010-322-020		C-CAP,S 100P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C401	87-010-322-080		C-CAP,S 100P-50 CH <YKZD88RDF,ZD8RD>
C402	87-010-322-020		C-CAP,S 100P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C402	87-010-322-080		C-CAP,S 100P-50 CH <YKZD88RDF,ZD8RD>
C403	87-010-322-020		C-CAP,S 100P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C403	87-010-322-080		C-CAP,S 100P-50 CH <YKZD88RDF,ZD8RD>
C404	87-010-322-080		C-CAP,S 100P-50 CH <YKZD88RDF,ZD8RD>
C404	87-010-322-020		C-CAP,S 100P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C405	87-010-322-020		C-CAP,S 100P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C405	87-010-322-080		C-CAP,S 100P-50 CH <YKZD88RDF,ZD8RD>
C406	87-010-322-020		C-CAP,S 100P-50 CH <EXCEPT YKZD88RDF,ZD8RD>
C406	87-010-322-080		C-CAP,S 100P-50 CH <YKZD88RDF,ZD8RD>
C407	87-010-405-080		CAP, ELECT 10-50V
C454	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
C454	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C601	87-010-260-080		CAP, ELECT 47-25V
C602	87-010-196-080		CHIP CAPACITOR,0.1-25 <YKZD88RDF,ZD8RD>
C602	87-010-196-020		CHIP CAPACITOR,0.1-25 <EXCEPT YKZD88RDF,ZD8RD>
CN1	87-A60-429-010		CONN,16P H TOC-A
CN201	84-ZG1-648-010		CONN ASSY,6P
CN202	87-A60-130-010		CONN,5P V
CN501	84-ZG1-647-010		CONN ASSY,2P <EXCEPT ZD8RN1DM,ZD8RNDM>
CN601	87-009-345-010		CONN,2P PH V <EXCEPT ZD8RN1DM,ZD8RDM,YZD8RDM,ZD8RNDM>
CON401	87-099-030-010		CONN,13P 6216H
FB601	87-008-372-080		FLTR,EMI BL01 RN1 <EXCEPT ZD8RN1DM,ZD8RDM,YZD8RDM,ZD8RNDM>
FB602	87-008-372-080		FLTR,EMI BL01 RN1
LED601	87-A40-558-010		LED,SLZ-8128A-01-A
M201	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
SW201	87-036-109-010		SW,MICRO SPPB61
SW202	87-036-109-010		SW,MICRO SPPB61
X101	87-A70-046-010		VIB,XTAL 16.934MHZ
LED. C.B			
LED501	87-A40-263-080		LED,SLH-56PCT31 GRN <EXCEPT ZD8RN1DM,ZD8RNDM>
LED502	87-A40-263-080		LED,SLH-56PCT31 GRN <EXCEPT ZD8RN1DM,ZD8RNDM>
LED503	87-A40-268-080		LED,SLH-56DCT31 ORN <EXCEPT ZD8RN1DM,ZD8RNDM>
LED504	87-A40-268-080		LED,SLH-56DCT31 ORN <EXCEPT ZD8RN1DM,ZD8RNDM>
T-T C.B			
C401	87-018-214-080		CAP TC U 0.1-50F
CON401	86-NFZ-675-010		CONN,5P H 6216-11H
M401	87-045-364-010		MOTOR(BCH3B14)
PS401	87-026-573-010		SNSR,PHOTO GP1S53V
MOTOR C.B			
PIN3	91-564-722-110		CONN,PIN 6P
SW1	91-572-085-110		LEAF SWITCH

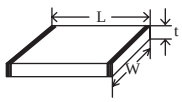
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

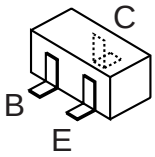
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

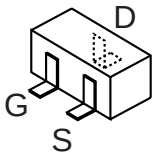
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

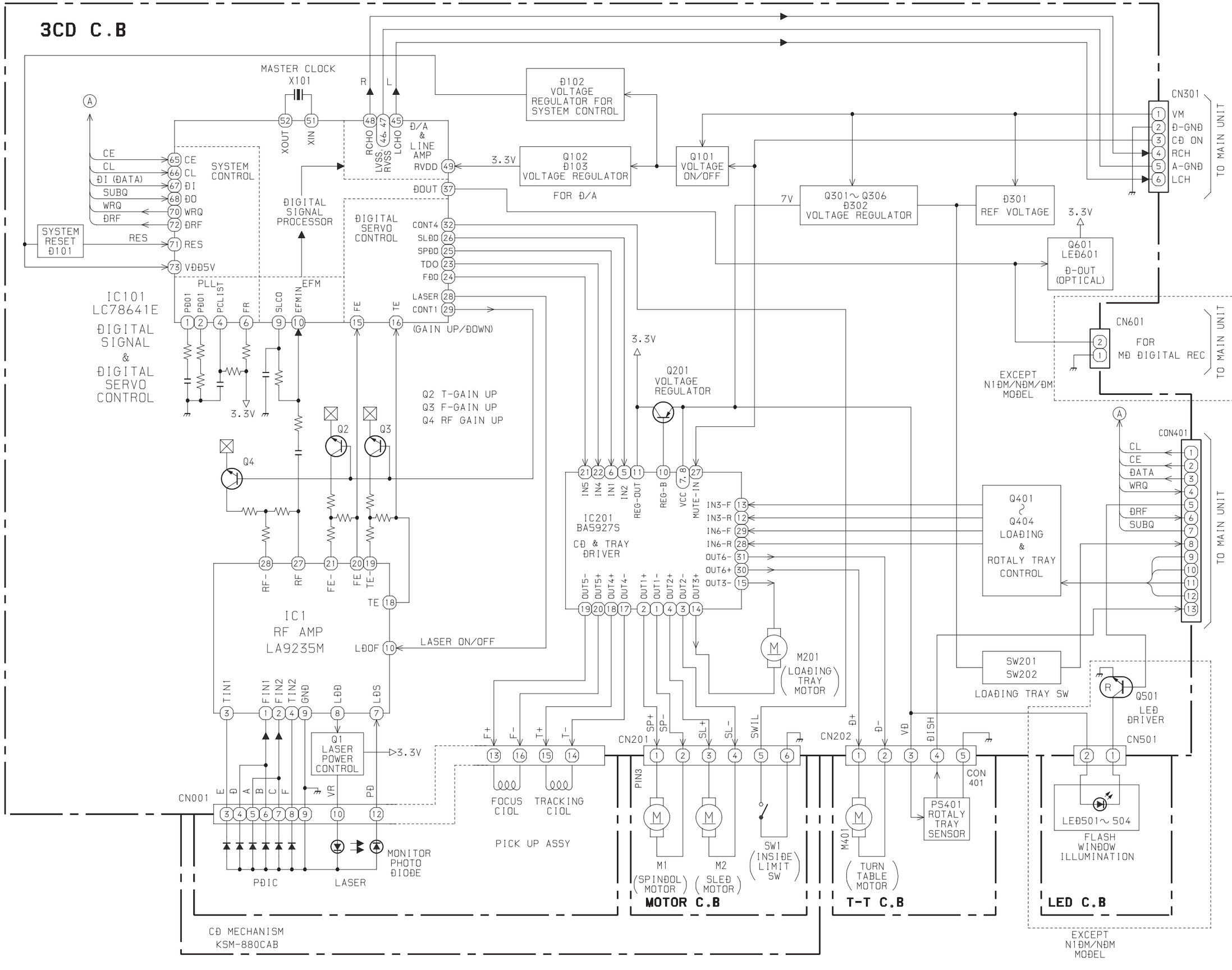


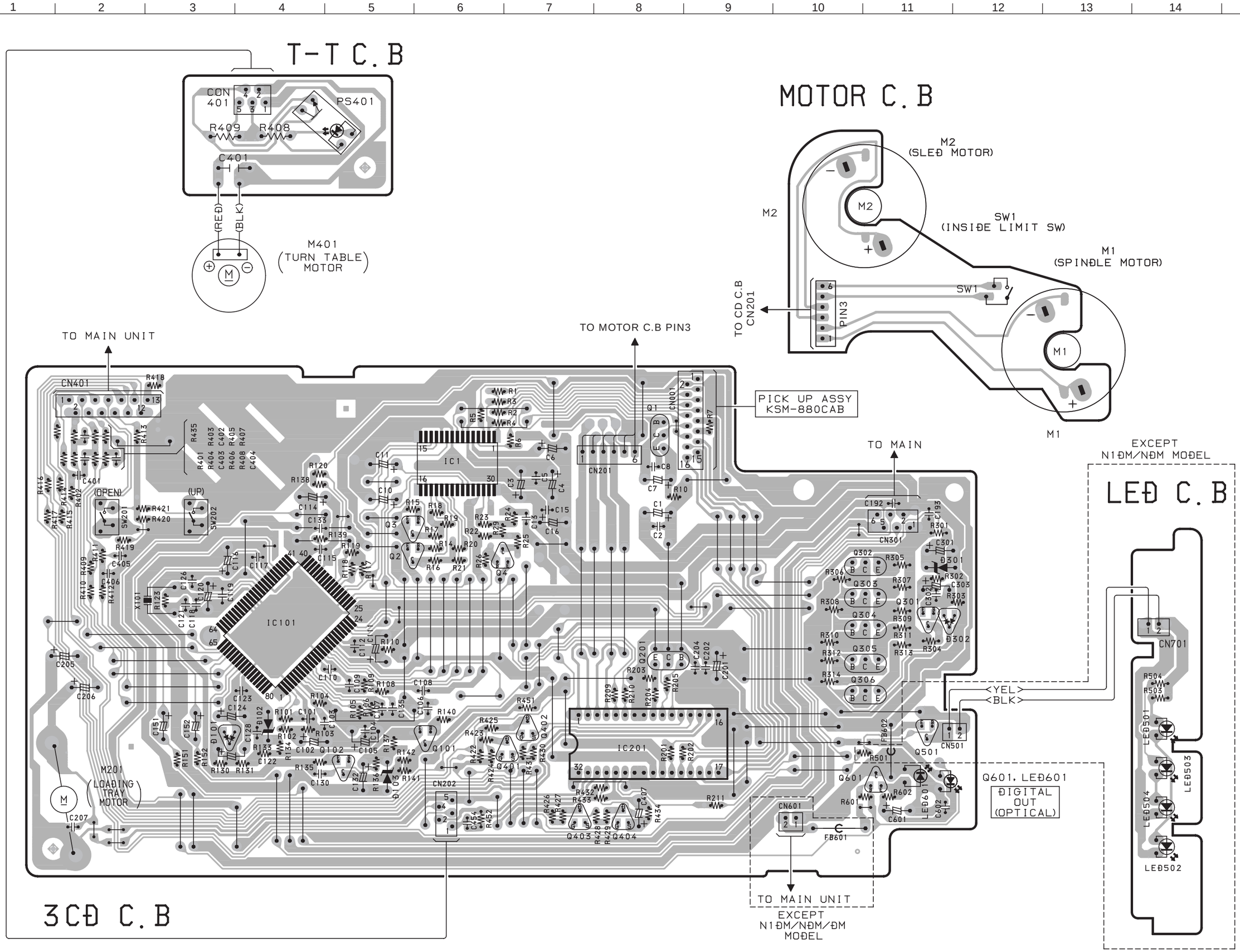
2SA1235F
2SC3052F
DTC124XK

2SA1980Y/G
KTA1266GR

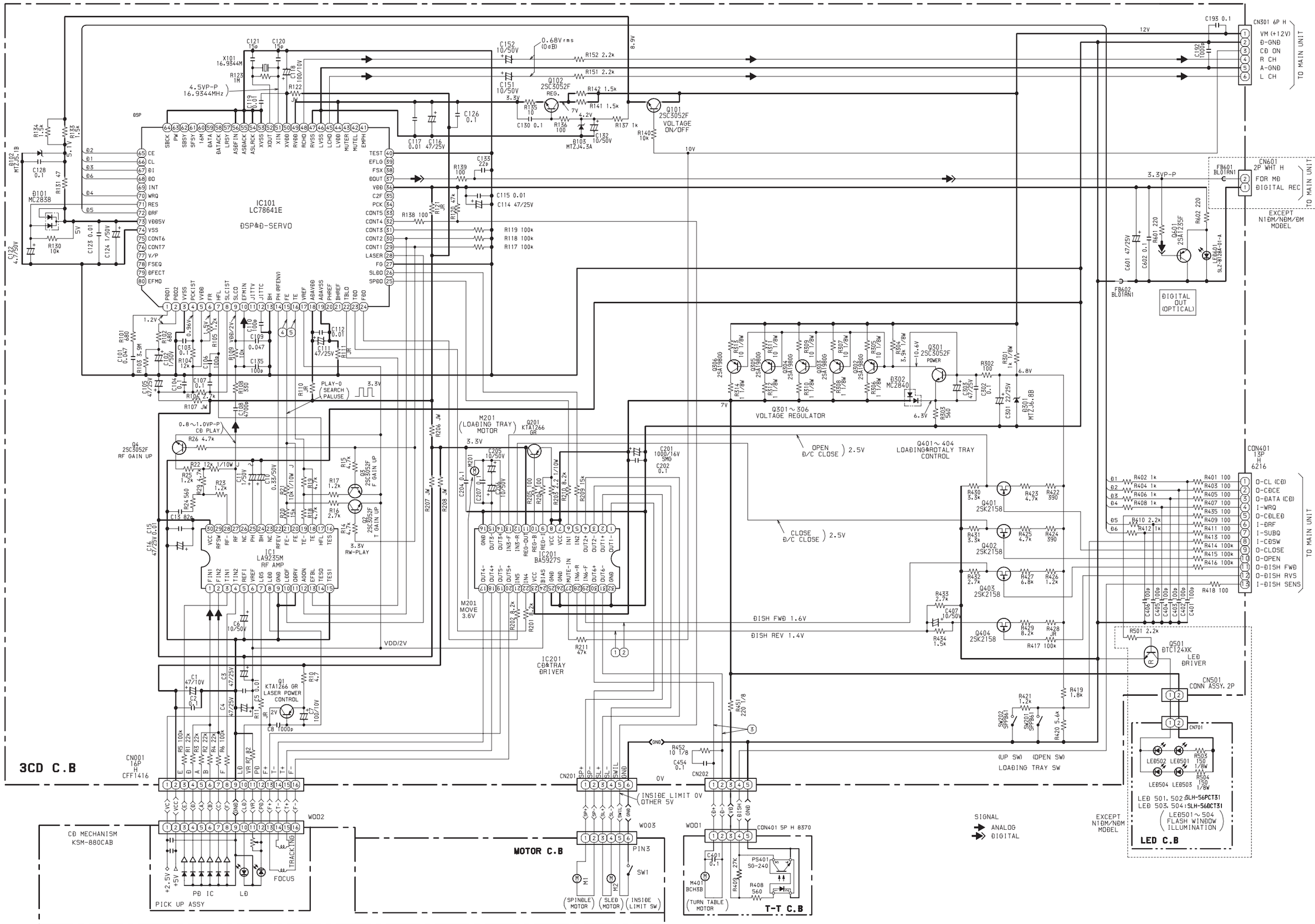


2SK2158


3CD C.B
MASTER CLOCK
X101
XOUT
XIN
R
L
RCHO
LVSS
RVSS
LCHO
Đ/A & LINE AMP
Đ102 VOLTAGE REGULATOR FOR SYSTEM CONTROL
Q102 Đ103 VOLTAGE REGULATOR
FOR Đ/A
Q101 VOLTAGE ON/OFF
3.3V
RVDD
ĐOUT
CE
CL
Đ I (ĐATA)
SUBQ
WRQ
ĐRF
RES
VĐĐ5V
SYSTEM CONTROL
SYSTEM RESET Đ101
ĐIGITAL SIGNAL PROCESSOR
ĐIGITAL SERVO CONTROL
CONT4
SLĐO
SPĐO
TDO
FĐO
LASER
CONT1
(GAIN UP/ĐOWN)
PLL
EFM
IC101
LC78641E
ĐIGITAL SIGNAL & ĐIGITAL SERVO CONTROL
PĐO1
PDO1
PCLIST
FR
SLCO
EFMIN
FE
TE
Q2 T-GAIN UP
Q3 F-GAIN UP
Q4 RF GAIN UP
Q2
Q3
Q4
Q201 VOLTAGE REGULATOR
7V
Q301~Q306 Đ302 VOLTAGE REGULATOR
Đ301 REF VOLTAGE
Q601 LEĐ601 Đ-OUT (OPTICAL)
CN301
VM
Đ-GNĐ
CĐ ON
RCH
A-GNĐ
LCH
TO MAIN UNIT
CN601
FOR MĐ ĐIGITAL REC
EXCEPT N1ĐM/NĐM/ĐM MOĐEL
CON401
CL
CE
ĐATA
WRQ
ĐRF
SUBQ
IC201
BA5927S
CĐ & TRAY ĐRIVER
IN5
IN4
IN1
IN2
REG-O
REG-B
VCC
MUTE-IN
IN3-F
IN3-R
IN6-F
IN6-R
OUT6-
OUT6+
OUT3-
OUT5-
OUT5+
OUT4+
OUT4-
OUT1+
OUT1-
OUT2+
OUT2-
OUT3+
Q401 ~ Q404 LOAĐING & ROTALY TRAY CONTROL
SW201 SW202
LOAĐING TRAY SW
M201 (LOAĐING TRAY MOTOR)
M
Q501 LEĐ ĐRIVER
CN501
LEĐ501~504
FLASH WINĐOW ILLUMINATION
LED C.B
EXCEPT N1ĐM/NĐM MOĐEL
RF-
RF
FE-
FE
TE-
TE
IC1
RF AMP
LA9235M
LĐOF
LASER ON/OFF
TIN1
FIN1
FIN2
TIN2
GND
LĐĐ
LĐS
Q1 LASER POWER CONTROL
3.3V
CN001
E
Đ
A
B
C
F
VR
PĐ
PĐIC
LASER
MONITOR PHOTO ĐIOĐE
F+
F-
T+
T-
FOCUS CIOL
TRACKING CIOL
PICK UP ASSY
CN201
SP+
SP-
SL+
SL-
SWIL
PIN3
M1 (SPINĐOL MOTOR)
M2 (SLEĐ MOTOR)
SW1 INSIĐE LIMIT SW
MOTOR C.B
CN202
Đ+
Đ-
VĐ
ĐISH
M401
TURN TABLE MOTOR
PS401 ROTALY TRAY SENSOR
CON 401
T-T C.B
CĐ MECHANISM KSM-880CAB


T-T C.B
CON 401
PS401
R409
R408
C401
(RED)
(BLK)
M401
(TURN TABLE MOTOR)
MOTOR C.B
M2
(SLED MOTOR)
M2
SW1
(INSIDE LIMIT SW)
M1
(SPINDLE MOTOR)
SW1
PIN3
TO CD C.B
CN201
M1
TO MAIN UNIT
TO MOTOR C.B PIN3
PICK UP ASSY
KSM-880CAB
TO MAIN
EXCEPT
N1DM/NDM MODEL
LED C.B
CN401
R418
(OPEN)
(UP)
SW201
SW202
M201
(LOADING TRAY MOTOR)
IC1
IC101
IC201
CN201
CN001
CN202
CN601
CN301
CN501
CN701
Q1
Q2
Q3
Q4
Q101
Q102
Q201
Q301
Q302
Q303
Q304
Q305
Q306
Q401
Q402
Q403
Q404
Q501
Q601
FB601
FB602
X101
D101
D102
D301
D302
LED501
LED502
LED503
LED504
LED601
<YEL>
<BLK>
Q601, LED601
DIGITAL OUT (OPTICAL)
TO MAIN UNIT
EXCEPT
N1DM/NDM/DM
MODEL
3CD C.B

SCHEMATIC DIAGRAM



TEST MODE

1. How to Start the CD Test Mode

While pressing the CD function key, connect the AC power plug to wall outlet.
The test mode starts up and “CD TEST” appears on the display.

2. How to Exit the CD Test Mode

Press the POWER button or disconnect the AC power plug from wall outlet.
* When any function key other than PLAY is pressed during playback, the test mode is canceled.

3. Function and Use of the CD Test Mode

NO	MODE	How to enter the mode	Display	Operation	Check item
1	Start mode		All indicators turn on	• All FL all ndicators turn on	• FL check • Microprocessor check
2	Search mode	STOP button	CD	• LD turns on all the time • Focus search continuos operation *1 • Spindle motor continuos kick	• APC circuit check • Laser current measurement • Focus search waveform check • Focus error waveform check (Ignores DRF during search mode)
3	Play mode	PLAY button	Normal	• Normal playback • Focus search is continued if failed in TOC READ.	• Each servo circuit is checked • DRF check
4	Traverse mode	PAUSE button	Normal	• Tracking servo OFF/ON Repeats OFF/ON every time the PAUSE button is pressed	• Tracking balance check
5	Sled mode	FF button	CD TEST	• Moves PU to inner circumference *2 Kicks the lens to inner circumference at the same time	• Sled circuit check • Tracking circuit check • Mechanism operation check • PU check
		RWD button	CD TEST	• Moves PU to outer circumference *2 Kicks the lens to outer circumference at the same time	
6	Spindle mode	TAPE REC button	All indicators turn on	• Pressing the button once rotates the spindle motor in the normal direction (rough speed). Pressing the button again rotates it in the reverse direction. Pressing it again stops the motor	• Spindle circuit check • Spindle motor check
7	RF AGC mode	TUNER button	AGC ON/OFF	• Repeats ON/OFF every time the TUNER button is pressed	• PU good or defective check • RF AMP circuit check

*1 ..... When the focus search keeps running for 10 minutes or longer continuously, the driver IC heats up, and the protective circuit works so that the machine may stops operating.
In this case, turn off the main power, wait for a while and restart the machine.

*2 ..... Do not keep pressing the FF or RWD button while the pickup is located at the innermost or outermost circumference because the gear can be damaged as the sled motor keeps rotating.

4. Automatic Adjustment Result Display

The automatic adjustment values of the focus and the tracking can be displayed.

4-1. Automatic Adjustment Result Display of Focus Offset Cancel/Gain

1) Enter the start mode (all indicators turn on).
2) Press the TAPE button to display “F**” and set each of the adjustment item to either ON or OFF. (Refer to the following table.)
3) Press the PLAY button to play back the CD.
4) Press the CD button.
5) The automatic adjustment value “F** **” is displayed. (Refer to the following table.)
6) Upon completion of check, press the CD button twice to return to the play mode.

Adjustment item (ON = 1, OFF = 0)			Automatic adjustment value display (Asterisk * means hexadecimal display.)			
F	OFFSET	GAIN	F	OFFSET	—	GAIN
F	0	0	F	Not displayed	Not displayed	Not displayed
F	1	1	F	**	Not displayed	**
F	1	0	F	**	Not displayed	Not displayed
F	0	1	F	Not displayed	Not displayed	**

4-2. Automatic Adjustment Result Display of Tracking Offset Cancel/Balance/Gain

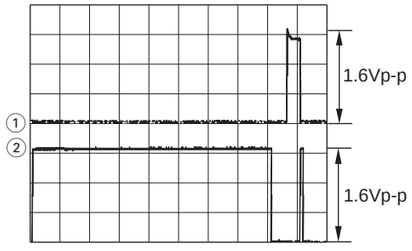
1) Enter the start mode (all indicators turn on).
2) Press the AUX button to display “T***” and set each adjustment item to either ON or OFF. (Refer to the following table.)
3) Press the PLAY button to play back the CD.
4) Press the CD button twice.
5) The automatic adjustment value “F******” is displayed. (Refer to the following table.)
6) Upon completion of check, press the CD button to return to the play mode.

Adjustment item (ON = 1, OFF = 0)				Automatic adjustment value display (Asterisk * means hexadecimal display.)			
T	OFFSET	BALANCE	GAIN	T	OFFSET	BALANCE	GAIN
T	0	0	0	T	Not displayed	Not displayed	Not displayed
T	1	1	1	T	**	**	**
T	1	1	0	T	**	**	Not displayed
T	1	0	1	T	**	Not displayed	**
T	1	0	0	T	**	Not displayed	Not displayed
T	0	1	1	T	Not displayed	**	**
T	0	1	0	T	Not displayed	**	Not displayed
T	0	0	1	T	Not displayed	Not displayed	**

WAVE FORM

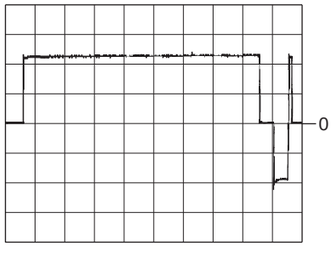
① IC201 ㉘ (IN6-R)
② IC201 ㉙ (IN6-F)

VOLT/DIV: 500mV
TIME/DIV: 200mS



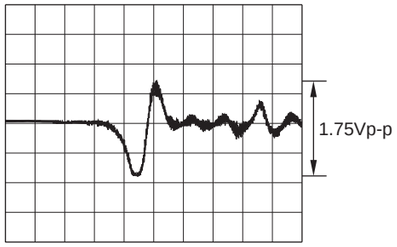
③ Between CN202 ① and ②
(② Pin: 0 Level)

VOLT/DIV: 1V
TIME/DIV: 200mS



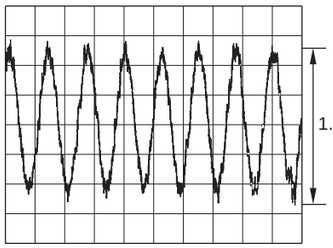
④ IC101 ⑮ (FE)

VOLT/DIV: 500mV
TIME/DIV: 2mS



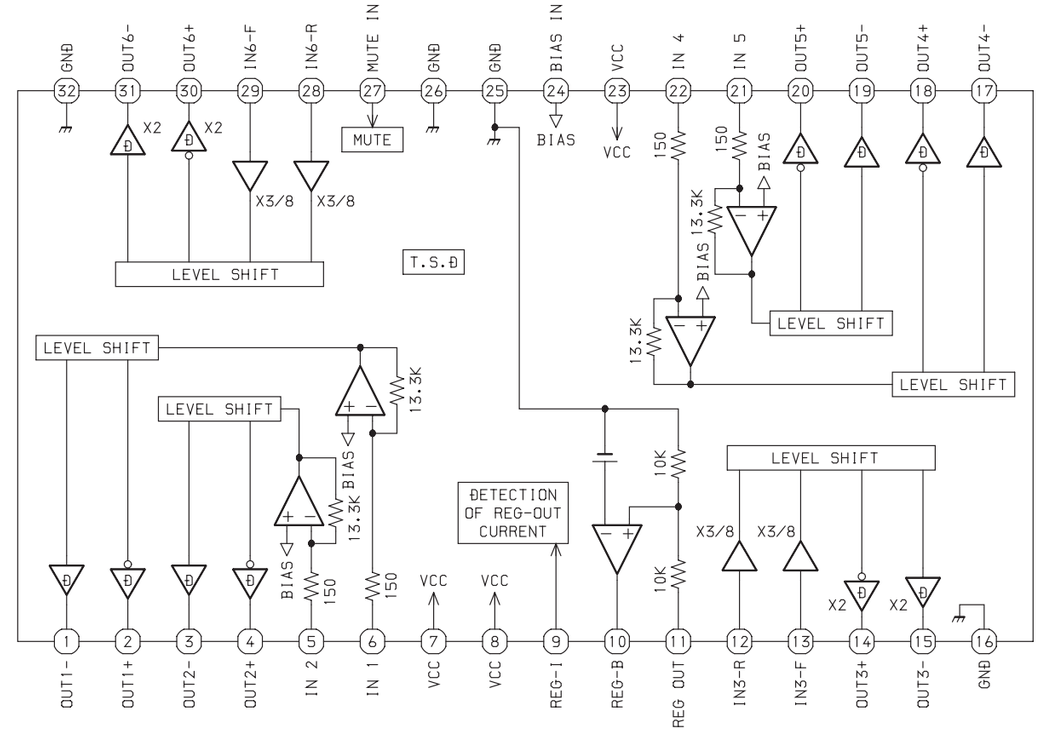
⑤ IC101 ⑯ (TE)

VOLT/DIV: 200mV
TIME/DIV: 200µS

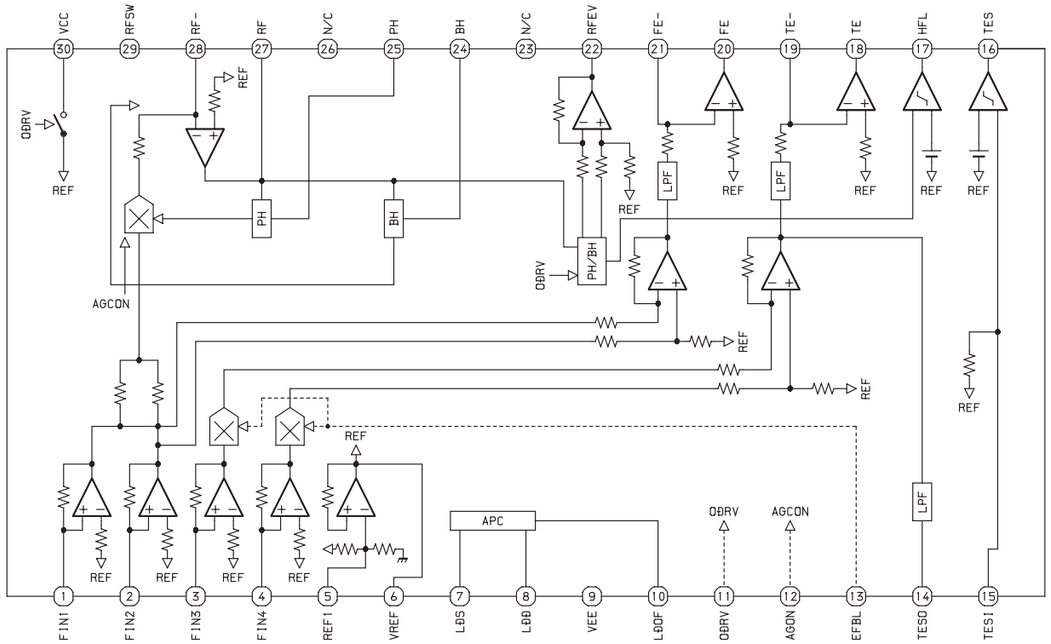


IC BLOCK DIAGRAM

IC, BA5927S



IC, LA9235M



IC DESCRIPTION

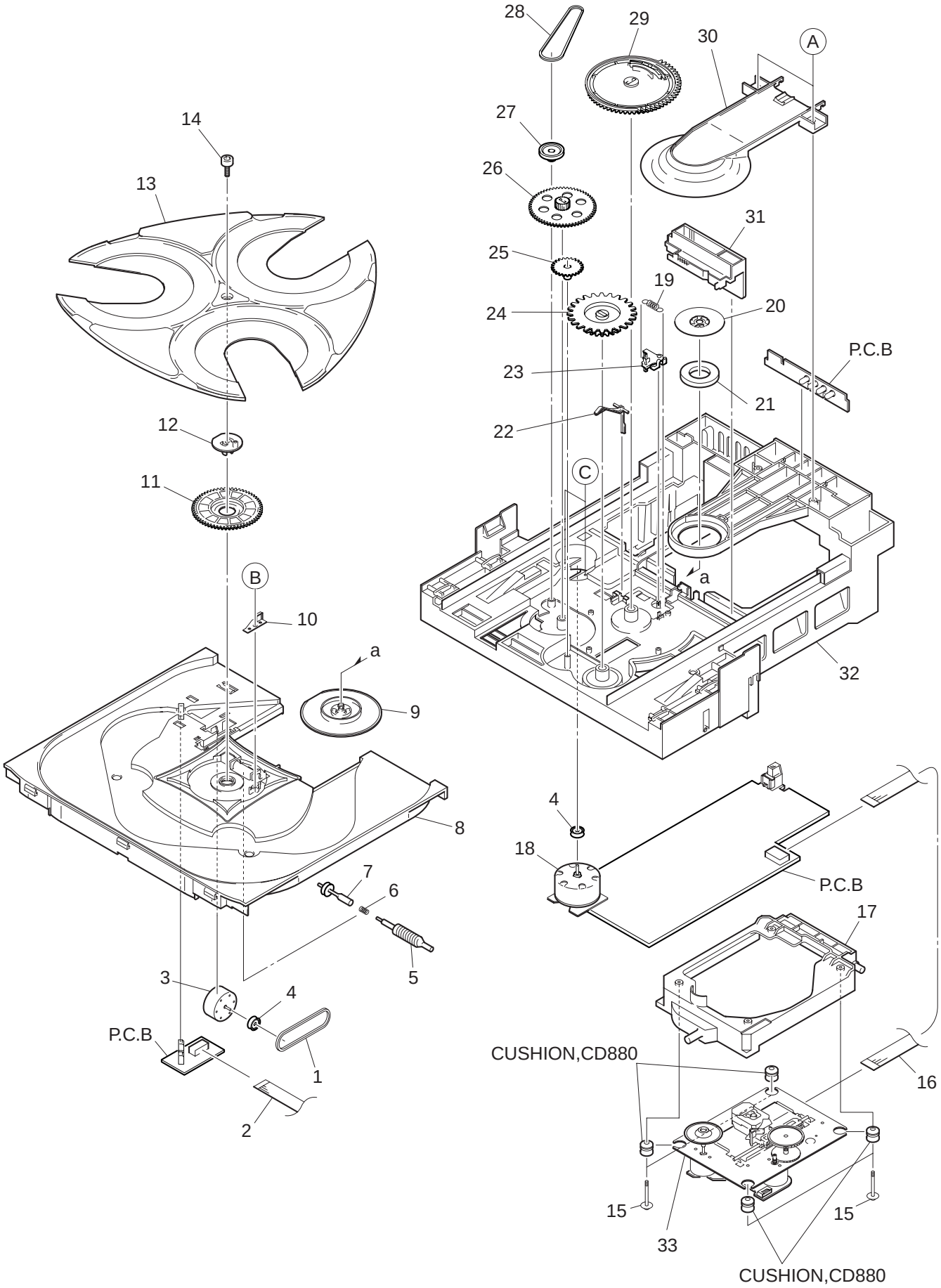
IC, LC78641E

Pin No.	Pin Name	I/O	Description
1	PDO1	O	Internal VCO control phase comparator output pin. (Pull down)
2	PDO2	O	Internal VCO control phase comparator output pin. OFF for rough servo, ON for phase servo. (Pull down)
3	VVSS	—	Internal VCO ground pin.
4	PCKIST	—	PDO output current adjustment resistor connection pin.
5	VVDD	—	Internal VCO power supply pin.
6	FR	—	VCO frequency range adjustment resistor connection pin. (Pull up)
7	HFL	I	Mirror detection signal input pin.
8	SLCIST	—	SLCO output current adjustment resistor connection pin.
9	SLCO	O	Control output.
10	EFMIN	I	EFM signal input pin.
11	JITTV	O	Jitter detection monitor pin.
12	JITTC	O	Jitter detection adjustment pin. (Pull down)
13	BH	I	BH signal input pin. (Connected to GND)
14	PH (RFENV)	I	PH signal or RFENV signal input pin.
15	FE	I	FE signal input pin.
16	TE	I	TE signal input pin.
17	VREF	I	VREF input pin.
18	ADAVDD	—	Servo A/D, D/A power supply pin.
19	ADAVSS	—	Servo A/D, D/A ground pin.
20	PHREF	O	PH reference output pin. (Not connected)
21	BHREF	O	BH reference output pin. (Not connected)
22	TBLO	O	Tracking balance output pin.
23	TDO	O	Tracking control output pin.
24	FDO	O	Focus control output pin.
25	SPDO	O	Spindle control output pin.
26	SLDO	O	Thread control output pin.
27	DVREF/FG	I/O	Output driver VREF output pin. FG signal input pin. (Connected to GND)
28	LASER	O	Laser ON/OFF control pin.
29	CONT1	I/O	General-purpose input/output pin 1. (Connected to GND)
30	CONT2	I/O	General-purpose input/output pin 2. (Connected to GND)
31	CONT3	I/O	General-purpose input/output pin 3. (Connected to GND)
32	CONT4	I/O	General-purpose input/output pin 4.
33	CONT5	I/O	General-purpose input/output pin 5. (Not connected)
34	PCK	O	EFM data playback clock monitor pin. Average 4.3218MHz when the phase is locked. (Not connected)
35	C2F	O	C2 flag output pin. (Not connected)
36	VDD	—	Digital power supply pin.
37	DOUT	O	Digital out output pin. (EIAJ format)
38	FSX	O	Output pin for the 7.35kHz synchronization signal divided from the crystal oscillator. (Not connected)

Pin No.	Pin Name	I/O	Description
39	EFLG	O	C1, C2 error correction monitor pin. (Not connected)
40	TEST	I	Test input pin. (Connected to GND)
41	EMPH	I/O	Emphasis pin. Which becomes an input pin after reset and can be controlled externally. This becomes an emphasis monitor pin under control by command. (Not connected)
42	MUTEL	O	L channel mute output pin. (Not connected)
43	MUTER	O	R channel mute output pin. (Not connected)
44	LVDD	—	L channel power supply pin.
45	LCHO	O	L channel output pin.
46	LVSS	—	L channel ground pin.
47	RVSS	—	R channel ground pin.
48	RCHO	O	R channel output pin.
49	RVDD	—	R channel power supply pin.
50	XVDD	—	Crystal oscillator power supply pin.
51	XIN	I	Connections for a 16.9344MHz crystal oscillator pin.
52	XOUT	O	
53	XVSS	—	Crystal oscillator ground pin.
54	ASLRCK	I	L/R clock input pin. (Connected to GND)
55	ASDACK	I	Bit clock input pin. (Connected to GND)
56	ASDFIN	I	L/R channel data input pin. (Connected to GND)
57	LRSY	O	L/R clock output pin. (Not connected)
58	DATACK	O	Bit clock output pin. (Not connected)
59	DATA	O	L/R channel data output pin. (Not connected)
60	16M	O	16.9344MHz output pin. (Not connected)
61	SFSY	O	Subcode frame synchronization signal output pin. This signal falls when the subcode is in the standby state. (Not connected)
62	SBSY	O	Subcode clock synchronization signal output pin. (Not connected)
63	PW	O	Subcode P, Q, R, S, T, U and W output pin. (Not connected)
64	SBCK	I	Subcode readout clock input pin. (Connected to GND)
65	CE	I	Chip enable signal input pin.
66	CL	I	Data transfer clock input pin.
67	DI	I	Data input pin.
68	DO	O	Data output pin.
69	INT	O	Interruption signal output pin. (Not connected)
70	WRQ	O	Interruption signal output pin.
71	RES	I	Reset input pin. This pin must be set low briefly after power is first applied.
72	DRF	O	Focus ON detect pin.
73	VDD5V	—	Microprocessor interface power supply.
74	VSS	—	Digital ground pin.
75	CONT6	I/O	General-purpose input/output pin 6.
76	CONT7	I/O	General-purpose input/output pin 7.
77	V/P	O	Rough servo/phase control automatic switching monitor output pin. “H” for rough servo and “L” for phase servo. (Not connected)

Pin No.	Pin Name	I/O	Description
78	FSEQ	O	Synchronization signal detection output pin. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not connected)
79	DEFECT	I/O	Defect pin. Which becomes an input pin after reset and can be controlled externally. This becomes the defect monitor pin under control by command. (Not connected)
80	EFMO	O	EFM signal output pin. (Not connected)

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1/1

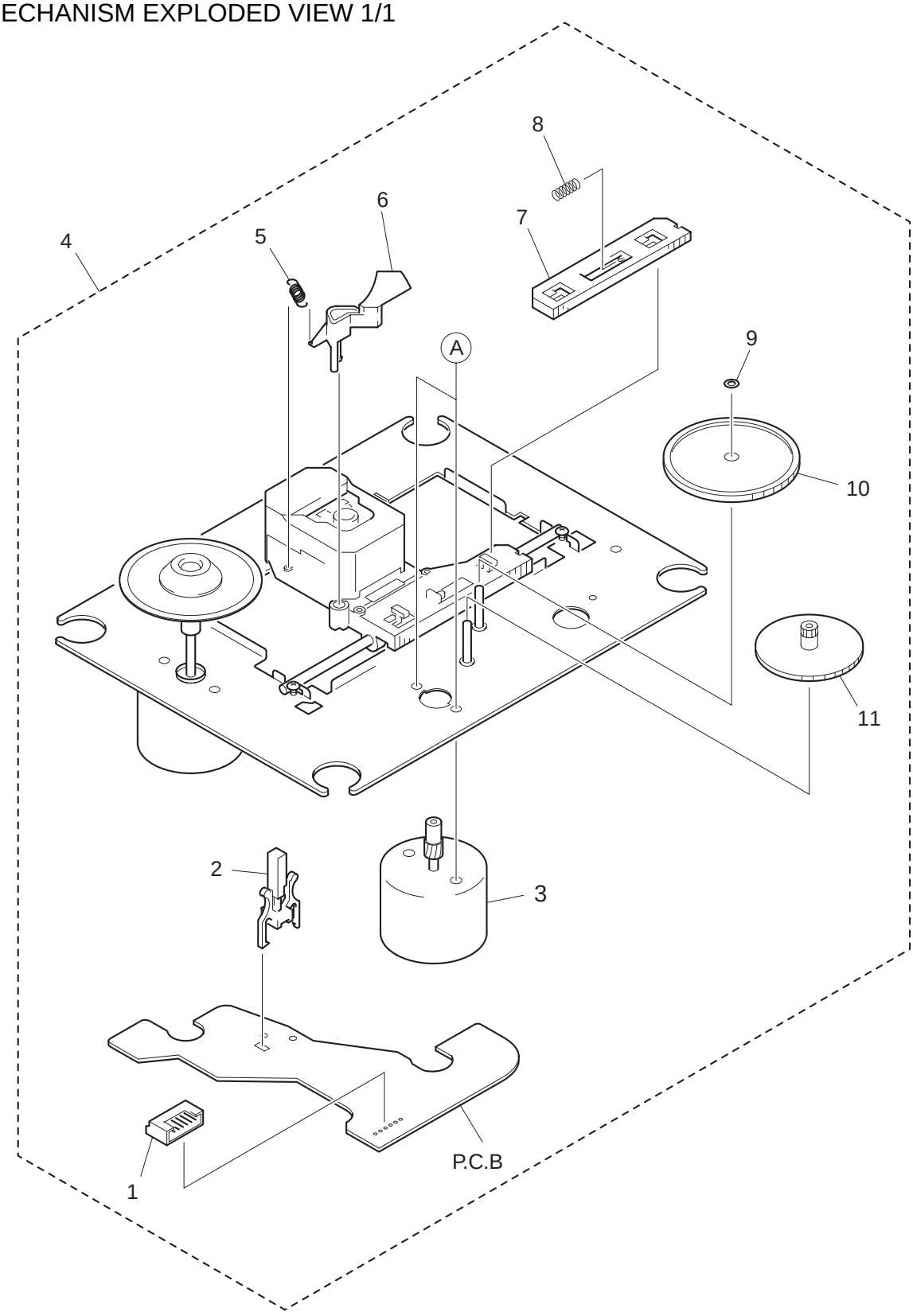
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-225-010		BELT,SQ1.0-63.3
2	84-ZG1-673-010		F-CABLE,5P 1.25 210MM BLACK N <EXCEPT ZD8RN1DM,ZD8RNDM>
2	84-ZG1-672-010		F-CABLE,5P 1.25 210MM WHITE N <ZD8RN1DM,ZD8RNDM>
3	87-045-364-010		MOTOR(BCH3B14)
4	84-ZG1-267-010		PULLEY,LOAD MO 8 <EXCEPT YKZD8RDF,ZD8RD>
4	81-ZG1-212-010		PULLY,LOAD MO<YKZD8RDF,ZD8RD>
5	84-ZG1-238-010		GEAR,WORM N
6	84-ZG1-248-010		SPR-C,WORM
7	84-ZG1-239-210		PULLY,WORM N
8	84-ZG1-008-210		TRAY,NO3<ZD8RD>
8	8A-ZG1-001-010		TRAY,NO3 BLU<EXCEPT ZD8RD>
9	8A-ZG1-210-010		HLDR,MAGNET 23<YKZD8RDF>
9	84-ZG1-243-210		HLDR,MAGNET N(J) <YZD8RDJM,ZD8RMDJM,YZD8RMDJM>
9	84-ZG1-289-010		HLDR,MAGNET NAT<ZD8RNDM>
9	81-ZG1-277-310		HLDR,MAGNET N <ZD8RN1DM,ZD8RDM,YZD8RDM,ZD8RD>
10	84-ZG1-259-010		SPR-P,WORM
11	84-ZG1-221-010		GEAR,MAIN TT<YKZD8RDF>
11	84-ZG1-269-010		GEAR,MAIN TT 4<EXCEPT YKZD8RDF>
12	84-ZG1-224-010		LEVER,TT<EXCEPT ZD8RNDM>
12	84-ZG1-288-010		LEVER,TT NAT<ZD8RNDM>
13	8A-ZG1-002-010		TURN TABLE,NO1 BLU<EXCEPT ZD8RD>
13	84-ZG1-005-210		TURNTABLE,NO1(*)<ZD8RD>
14	81-ZG1-239-010		S-SCREW,TT
15	8A-ZG1-201-010		S-SCREW,MECH 880
16	85-NFT-611-110		FF-CABLE 16P-1.0
17	84-ZG1-299-210		HLDR,MECHA NO3<EXCEPT ZD8RNDM>
17	8A-ZG1-203-010		HLDR,MECHA NO3 NAT<ZD8RNDM>
18	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
19	84-ZG1-211-010		SPR-E CAM S
20	84-ZG1-285-010		PLATE,MAGNET BLK<ZD8RN1DM>
20	81-ZG1-255-110		PLATE,MAGNET MK2<EXCEPT ZD8RN1DM>
21	83-ZG3-604-010		RING,MAG 2
22	83-ZG3-213-010		LVR,SW
23	84-ZG1-208-210		LEVER,CAM<YKZD8RDF>
23	84-ZG1-266-010		LEVER,CAN 8<EXCEPT YKZD8RDF>
24	84-ZG1-205-210		GEAR,TRAY (*)
25	81-ZG1-291-110		GEAR,TRAY RELAY NO3
26	84-ZG1-206-110		GEAR,RELAY<YKZD8RDF>
26	84-ZG1-274-010		GEAR,RELAY 8<EXCEPT YKZD8RDF>
27	84-ZG1-207-010		PULLEY,RELAY
28	84-ZG1-209-010		BELT,SQ1.8-117.7
29	84-ZG1-203-410		GEAR,MAIN CAM<ZD8RNDM>
29	84-ZG1-215-410		GEAR,MAIN CAM BLU<EXCEPT ZD8RNDM>
30	84-ZG1-011-010		REFLECTOR,CD <EXCEPT ZD8RN1DM,ZD8RNDM>
31	84-ZG1-216-310		SLIDE,MECHA CAM YEL <EXCEPT ZD8RNDM>
31	84-ZG1-204-310		SLIDER,MECHA CAM<ZD8RNDM>
32	84-ZG1-286-010		CHAS,MECHA NAT<ZD8RNDM>
32	84-ZG1-201-410		CHAS,MECHA<EXCEPT ZD8RNDM>
33	M8-ZZK-C90-070		KSM-880CAB
A	87-067-703-010		TAPPING SCREW, BVT2+3-10 <EXCEPT ZD8RN1DM,ZD8RNDM>
B	87-067-981-010		BVT2+3-6 BLK
C	87-251-070-410		U+2.6-3

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

CD MECHANISM EXPLODED VIEW 1/1



CD MECHANISM PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	91-564-722-110		CONN,PIN 6P
2	91-572-085-110		LEAF SWITCH
3	9X-264-655-010		SL MOTORR ASSY
4	M8-ZZK-C90-070		KSM-880CAB
5	92-647-416-020		SPRING EXTENSION
6	92-647-595-020		SHUTTER B
7	92-647-732-010		NS SLIDE RACK
8	92-647-742-010		SPRING COMPRESSION
9	93-321-813-110		POLI WASHER
10	92-647-407-010		GEAR A
11	92-647-408-020		GEAR B
A	93-713-786-510		SCREW,+P2-3

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

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